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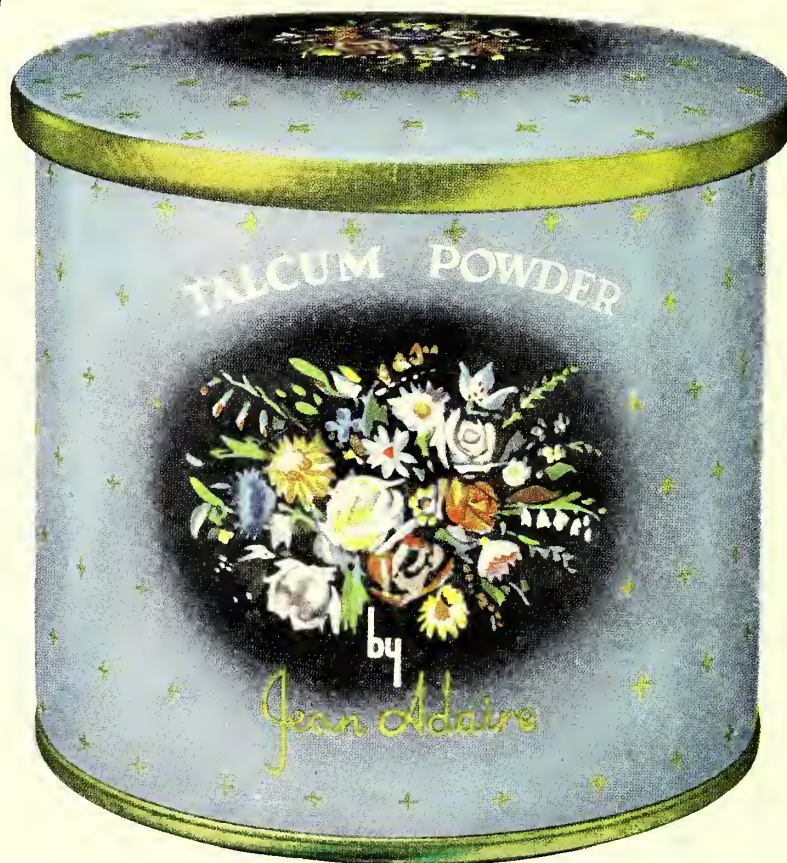
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

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The CHEMIST AND DRUGGIST

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OCTOBER 24, 1953

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Burma Buys a Drug Industry

£MILLIONS TO BRITAIN FOR "KNOW-HOW"

AN agreement between Evans Medical Supplies, Ltd., Speke, Liverpool, 19, and the Government of the Union of Burma, signed at the Burmese Embassy at 2.30 p.m. on October 20 by Mr. Ian Fergusson (chairman and managing director of the company) and U. Tin Pé on behalf of the Burma Government, provides for the establishment of a Burmese pharmaceutical industry under the guidance and with "know-how" contributed by Messrs. Evans.

Under the agreement the company will advise on the selection of suitable architects and consulting engineers, and on the design and layout of a new factory on a large site near Rangoon, at a cost running into seven figures. The company will act as purchasing agent for all the plant and equipment required, and provide the necessary skilled technical staff to supervise operations until such time as Burmese nationals have been selected and trained in the United Kingdom and in Burma to take over management and control.

For an initial period of seven years the company will also manage the factory. During that period it is estimated that the value of the agreement to the United Kingdom, allowing for the remuneration of British technical and supervisory staff, professional fees, charges, British machinery and raw materials, etc., will amount to several million pounds sterling.

The agreement has been negotiated under conditions of keen competition from continental pharmaceutical manufacturers and has the approval of Her Majesty's Government.

The products covered by the agreement include antitoxins, sera and vaccines (human and veterinary); sterile products for parenteral injection; transfusion solutions; a large range of galenicals; medicinal yeast; and alcohol.

MANX DRUG COSTS

New economy drive

THE Health Services Board of the Isle of Man, where the average cost of prescriptions last year was 4s. 7d., decided at a recent meeting that "a considerable reduction in cost" was possible without in any way restricting the "proper and necessary treatment" provided under the National Health Services Act. In future all doctors on the island's medical list will prescribe only those medicines and appliances that they deem necessary for their patients, not necessarily those "selected by or

on behalf of a patient." Laxatives, vitamins, and tonics will be prescribed only for the treatment of definite clinical conditions, not for routine use; malt and cod-liver oil will be supplied only to sufferers from tuberculosis or other organic disease, and cotton wool, lint, dressings, and disinfectants will not be supplied for routine sick-room use, or for maternity use but only for a patient under the doctor's care on account of an open lesion or for an acute inflammation. All doctors on the medical list and the general public have been notified of the decision.

CHEMISTS FEDERATION Meeting of Council

A MEETING of the council of the Chemists Federation was held on October 8, the president (Mr. S. M. Lennox) in the chair. Meetings of the C.F. propaganda committee and C.F. standards committee were held on the previous day. The following additions to schedules of C.F. agreements were approved: Allied Laboratories, Ltd., Throsil; Alfred Bishop, Ltd., Bishop's effervescent citrate of caffeine tablets; Cuxson, Gerrard & Co., Ltd., G.P. germicide; Wigglesworth, Ltd., golden ear drops. The council considered a previous decision on the inclusion of ear drops. The council considered a resolved "That preparations for the treatment of earache be not eligible for inclusion in the C.F. list but that simple ear drops, if accompanied by a suitable warning with special reference to children, can be considered for inclusion in the list." The following warning, if enclosed in a separate block on the label, was regarded as being suitable: "When pain is persistent or recurrent, particularly in children, consult a physician without delay." The council ruled that preparations for the



SIGNATURES TO A CONTRACT: U. Tin Pé (permanent secretary of the Burmese Ministry of Planning) and Mr. Ian Fergusson (chairman and managing director, Evans Medical Supplies, Ltd.) signing the agreement under which the company assumes responsibility for the design, construction and initial running of a plant in Burma to make medical supplies available for the whole of the Burmese people.

treatment of obesity cannot be accepted for inclusion in the C.F. list as class B products. Reports of fourteen meetings which had been addressed by members of the C.F. council and the secretariat in connection with the C.F. display fortnight were received. It was reported that the first edition of *The Chemists Friend* had been issued to all retailer members. A report was received of the additional propaganda work undertaken by the assistant secretary in Scotland and by the representative of the Federation in the Swansea and district and Breconshire National Pharmaceutical Union branch areas. A statement to be submitted by the Federation to the Monopolies and Restrictive Practices Commission was approved. Preliminary arrangements for the annual luncheon and meeting of C.F. manufacturers which will be held on January 28, 1954, were considered. Approval was given to the appointment of Fanchette, Ltd., Peckham, London, S.E.15, as the central buying organisation for the retail establishments of Arnett & Co. (Chemists), Ltd. Authority was given for the necessary alterations to be made to the list of approved C.F. wholesalers in connection with the taking over by William Martindale, Wholesale, Ltd., of Armstrongs (Cambridge), Ltd.

P.A.T.A. ELECTION Thirteen vacancies

THIRTEEN seats on the council of the Proprietary Articles Trade Association for 1954 are open for election shortly, and nominations may now be made. The retiring members are:—

Manufacturers' Section.—The British Drug Houses, Ltd.; J. Grossmith & Son, Ltd.; John Steedman & Co.; and (by resignation) Icilma Co., Ltd.

Wholesale Section.—Barclay & Sons, Ltd.; Ferris & Co., Ltd.; Smith & Sons (Norwich), Ltd.; and Southall Bros. & Barclay, Ltd.

Retail Section.—Messrs. C. S. Challinor; C. H. Foster; W. T. Stoyte; A. R. Cross, and (by resignation) S. W. Hague.

It is open to the members of the manufacturers', wholesale and retail sections of the P.A.T.A. only to nominate for vacancies in their respective sections. Nominations should be sent to the secretary, 43 Gordon Square, London, W.C.1, so as to be received by November 9.

MEMORIAL TO SLOANE Plaque Unveiled at Chelsea

AT a ceremony held at the Old Burial Ground, King's Road, Chelsea, London, S.W.3, on October 8, Professor A. V. Hill (a trustee of the British Museum) unveiled a plaque, affixed to the wall of an adjacent building, which stated that the ground had been donated to the borough of Chelsea by the late Sir Hans Sloane (1660-1753). The plaque had been put up by the London County Council on the instigation of the Chelsea Society. In a preliminary address PROFESSOR HILL said: Two hundred and seventy-four years ago there came to London from Killyleagh, Northern Ireland, a young man, Hans Sloane, who later was to succeed

Isaac Newton as president of the Royal College of Physicians. His purpose in coming to London was to pursue his studies in medicine, botany and chemistry. In his ninety-third year he died in Chelsea, leaving a vast collection of material and books which—by Act of Parliament five months after his death—became the nucleus of what is now the British Museum. Sloane was a great and wise physician and a shrewd and competent man of affairs; he was also an ardent and untiring collector and a pioneer of scientific botany. Nearly a thousand experts of all kinds are looking after the collection started by him in the two British museums at Bloomsbury and Kensington. In Chelsea were other and more familiar reasons for remembering him. Early in his days in London he worked in the laboratory and the so-called physic garden of the Society of Apothecaries. In 1712 he bought the Manor House of Chelsea and came to it at weekends from his home in Bloomsbury. As Lord of the Manor he was the landlord of the Physic Garden, and he conveyed it to the Apothecaries in perpetuity for a small rent. His statue, erected by the Society of Apothecaries twenty years before he died, stands looking over the garden.

PARMENTIER HONOURED A Memorial in Paris

A PLAQUE was unveiled at the Invalides, Paris, on October 17, in honour of Jean Antoine Augustin Parmentier, a former apothecary-major of the *Hôtel Royal des Invalides* and inspector of health services in the French Army. Messages of good will on the occasion were received from the Pharmaceutical Society of Great Britain, the Food and Agriculture Organisation and other bodies. Parmentier was the subject of an article in the *C. & D.*, 1951.1.830.

SHOPKEEPERS' TRIALS Views aired at Tenby

IN his presidential address to the autumn conference of the National Chamber of Trade in Tenby, Pembroke, on October 12, Mr. H. Roy Pochin said that the burden of purchase tax fell most heavily on the retailer. It reduced his profit margin, increased his demands on capital, and caused him to suffer losses when the tax was reduced. On the question of rating, there was the same tendency to regard the retailer as someone to be heavily mulcted for daring to open a shop. The Government was considering the question of the next census of distribution. On the investigating committee the co-operative movement, the multiple shop organisations and the trade unions were represented, but the independent shopkeeper, the class who had to fill in most of the forms, had no representative, nor could the Government be brought to see that any such representation was necessary. Perhaps the fact that the National Chamber of Trade had forcibly expressed an adverse opinion on the usefulness of the first census had something to do with it. The

Government emphasised, however, that there was no representation and that members of the Committee were there as individuals. It seemed fairly certain that 7 p.m. (8 p.m. on the late day) would take the place of the closing hours at present prescribed in the Shops Act, 1950. That change would fit in with the Chamber's policy on the matter and be in accordance with the Chamber's evidence submitted to the Gowers committee.

SQUARE ASSOCIATION Record attendance

THE annual meeting of the Square Association was held in London on October 13 when there was a record attendance. Mr. J. C. Hanbury was elected *President* for the session 1953-54 and in an address gave reminiscences on his student days. He recalled that apart from academic and public distinctions obtained by past students of the "Square," several had achieved repute in the field of sport. Other officers for the session were elected as follows:—*Secretary*, Mr. S. B. Challen, 17 Bloomsbury Square, London, W.C.1; and *Treasurer*, Mr. A. Briggs.

LOCAL NEWS Analysts' Three Mistakes

AT a recent meeting of London Executive Council the question of three prescriptions for garg, pot. chlor. and phenol dispensed, under the scheme for testing drugs and appliances, by three separate chemists, was considered. The Council's analysts had reported deficiencies of 14.9 per cent., 15.0 per cent. and 18.1 per cent. of liquefied phenol respectively. In all cases the chemists concerned, as a result of the report of their own analyst, asked that the council's reserve sample should be examined by the Government chemist, who reported that the samples were in agreement with the prescription. As a result of those reports the Council's analysts observed that "We have made a thorough investigation and it appears that although we were under the impression that our instructions regarding the process of analysis were precise and not open to misconception, in one particular the directions were misinterpreted, leading in consequence to erroneous results. This state of affairs has now been rectified." The Council agreed that the observations should be noted.

Catholic Pharmaceutical Guild

AT a meeting of the Newcastle branch of the Catholic Pharmaceutical Guild held in Newcastle on October 14, Mr. R. E. Jackson reported on a recent visit to Bonn. It was decided then by the central council of the International Federation of Catholic Pharmacists that the third congress of the Federation would be held at Saragossa, Spain, September 3-5, 1954. The theme of the congress would be "Humanity and the Profession of Pharmacy."

NEWS IN BRIEF

An Honorary Fellowship.—At a ceremony in London on October 20, the Duke of Edinburgh received the honorary fellowship of the Royal College of Surgeons. He accepted the scroll of fellowship from Sir Cecil Wakeley (president).

Smash-and-grab Raid.—Smash-and-grab raiders broke a display window at the pharmacy of Mr. Allen Aldington, M.P.S., 493 Seven Sisters Road, London, N.15, at about 8.30 p.m. on October 8. One camera appears to have been the only object taken.

Retail Sales in August.—Recently issued Board of Trade figures show that sales of chemists' goods by large retailers were 6 per cent. lower in August than in July and 5 per cent. higher than in August 1952. Comparative figures for independent retailers were 1 per cent. lower and 2 per cent. lower respectively.

Conference on Medical Statistics.—Delegates from twenty-eight countries gathered in the library of Somerset House, London, on October 12 to discuss medical statistics and their use in the attack upon disease. The conference, the first of its kind, had been called by the World Health Organisation.

British Fair in Baghdad.—Sir Norman Kipping (Director-General of the Federation of British Industries) announced recently that the F.B.I. is to organise a British trade fair in Baghdad in the autumn of 1954. The fair is to be held in the open air in the evenings, and its main purpose, he said, would be to show what British industry had to offer the peoples of Iraq and other Middle Eastern countries—equipment for the capital development projects and consumer goods.

Hospital Finance.—The Minister of Health (Mr. Iain Macleod) in the inaugural address to the one hundred and twenty-fourth session of King's College Hospital Medical School on October 2 said there were many people who felt that the whole of the hospital services today would be happier if something similar to the method of financing hospitals by means of block grants were instituted, and that was one of the matters he had asked Mr. Guillebaud's committee to examine as a matter of urgency.

Camera Trick.—A photographer who obtained a £20 camera on approval from a Cleethorpes dealer, took photographs of holidaymakers, and vanished with their money after having had the nerve to leave the negatives with the same dealer for processing, has been traced by the police. He paid a return visit to the dealer, asked that no proceedings should be taken against him, and arranged to have the prints forwarded to the holidaymakers. The dealer, who gave him the option of either paying for the camera or returning it after making good any depreciation, intends to do whatever he can to see that he and his fellow traders are not imposed upon similarly in future.

TOPICAL REFLECTIONS

By Xrayser

Edinburgh Discussion on N.H.S.

Several useful things were said at the recent Edinburgh meeting addressed by Sir Hugh Linstead (p. 389). Considerable concern is evidently felt on the effect of the Sighthill Health Centre on dispensing in pharmacies in the neighbourhood. Sir Hugh Linstead suggested that the centre is experimental, equipped with all the services thought to be appropriate, and that the lessons to be learned can only be appraised after some years' experience. I assume that the Ministry of Health and the Department of Health for Scotland will then jointly compare the working of this establishment with that of the one in North London and of any others that may have been set up meanwhile. The speaker added that if the business of local chemists was affected by arrangements at Sighthill, the local organisations in pharmacy might formulate their views and produce a report. It will be of interest to ascertain, if possible, what effect the routine at this centre may have on frequency of prescribing. Possibly the medical practitioners in attendance there will be less open to persuasion by patients than they or their colleagues would be in individual surgeries. Arrangements at Sighthill for dispensing came in for severe criticism; one speaker denounced the smallness of the salary proposed, and another complained of complete isolation from patients.

Modern Window Display

The illustrated article on pp. 400-04 (to be concluded) gives excellent guidance on the arrangement of chemists' windows, a subject about which, judging from my observation of shops, there is still much to learn. The kernel of this treatment of window display may be found in a remark near the beginning: "the manner of presentation should be changed with reasonable frequency." Those of us who were never very good at window dressing would have valued hints of this kind years ago: for they go further than most of a similar type. Has the expression "a good selling window" ever been satisfactorily defined? A comprehensive definition may be hard to formulate. Contributory factors can be enumerated; but do they add up to what is required? The truth is that it is difficult to say what the public will respond to. That incalculable element makes display somewhat of a gamble. Yet, with perseverance and frequent experiment, a window-dresser may begin to feel sure that the selection set out offers a fair chance of a good result. Owners of businesses who can afford to use austere windows will, I suppose, long continue to be a minority.

Vanished Bloomsbury Pharmacies

The Payne-Huskisson-Martindale correspondence cited on pp. 377-78 of your issue of October 10 brings to mind the desirability of dating and locating pharmacies formerly existing in Bloomsbury—not a numerous group. I think, because in the nineteenth century that district was so largely residential. Someone who has the necessary leisure may be able to elucidate the matter with the help of directories and rate-books. One difficulty is that local authorities are given to renumbering streets at their discretion—or indiscretion. People who knew Bloomsbury in or before 1900 can no doubt remember passing the shop of Thomas Morson & Son on the west side of Southampton Row, a few doors from High Holborn, and that of J. T. Davenport on the south side of Great Russell Street, about (if my memory serves) where the Waverley Hotel now is. (As manufacturers, both these firms were advertisers in *THE CHEMIST AND DRUGGIST* in the eighteen-sixties.) The initial and terminal dates of those two retail businesses can easily be found; but that is not the case with all the others. In 1828 and 1829, Mr. F. Broughton paid the rates of a chemist's shop at what was then 63 Great Russell Street: when had he taken possession? He was followed as ratepayer by Mr. C. Edwards, Mr. G. H. Guy and Mr. C. E. Turner. The last-named, who began there in 1858, afterwards removed to the adjoining Bury Street. Writing from memory, Mr. H. O. Huskisson inserted the name of a Mr. Baxter between those of Edwards and Guy.

LEGAL REPORTS

Refuse in Street. — At Old Street, London, magistrates' court recently a shopkeeper was fined £1, with 10s. 6d. costs, for transferring refuse from his shop at Kingsland Road, London, E.8, to the street in contravention of a by-law of the London County Council.

Sentence Reduced. — After hearing an appeal by Dr. John Joseph Flanagan, Church Street, Coatbridge, Lanarks, on October 13, the high court of judiciary in Edinburgh substituted a fine of £25, with the option of three months' imprisonment, for the sentence of sixty days imposed upon him at Airdrie sheriff court for defrauding the National Health Executive Council of £43 15s. The Lord Justice-General said that circumstances that weighed with him included the amply vouched professional zeal of the appellant and the fact that he had made complete restitution of the moneys improperly obtained.

Committed for Sentence. — Stating that "We are not in a position to punish you adequately for the offences you have committed," the chairman of the magistrates at Bradford city court on October 13 committed Jack Sharp, a former manager of Bradford Chemists' Alliance, Ltd., to the Quarter Sessions for sentence. Sharp had pleaded guilty to stealing £5,351 from the company in a little over twelve months. There were three counts of stealing a total of £1,726; three charges of stealing a cheque worth twopence, and three of making a false entry in the cash book with intent to defraud. Sharp asked that sixteen other offences should be considered. Eight of them concerned the stealing of £3,624. Prosecuting solicitors said that Sharp had been employed by the firm for eight years, latterly as a manager at £740 a year. The directors regarded him as extremely trustworthy. He had worked extremely hard and long hours and had refused to take any holiday, much to the directors' distress. After the annual audit in 1952 the directors became dissatisfied with Sharp's service because there was evidence that he was neglecting his duties. On June 30 they decided to dismiss him. He was offered a month's wages in lieu of notice. He replied: "I don't want your money. I am doing better out of my television business than I am out of you."

Chemist in Conspiracy Charge. — At Southend, before the county magistrates, on October 14, Geoffrey William Unwin, M.P.S., and Dr. Archibald Basham, both of Rayleigh, appeared on charges of false pretences relating to three cheques for £1,103, £785 and £842 paid by the Executive Council for prescriptions dispensed during last December 1952, January and February, the allegations concerning a proportion of those amounts. For the prosecution it was said that Dr. Basham made out a number of prescription forms in the names of people who were registered patients of his and, in conjunction with Unwin, who was a director and majority shareholder in Yardley, Ltd., a Rayleigh company of chemists, had defrauded the Executive Council. Unwin knew that the

persons whose names appeared on the prescription forms had never received the drugs or appliances shown and that his company had not dispensed them. Dr. Basham's part was to make out and sign the prescription forms, Unwin's part to submit them for payment. The company Yardley, Ltd., had received the direct benefit, but he would not say what Dr. Basham had got out of it until the appropriate witness gave evidence. Between forty and fifty prescription forms for which Dr. Basham's patients had never received the items specified but for which payment had been made were involved. After evidence had been given the hearing was adjourned, both the accused being allowed bail. Further evidence was heard on October 19, but the case was again adjourned.

Trade-mark Appeal Dismissed. — The Court of Appeal, London, dismissed with costs, on October 16, an appeal by Ferdinand Mülhens, Cologne, Germany, suing through his mother Maria (he being an infant), from the order of Mr. Justice Danckwerts on March 16 (see *C. & D.*, March 21, p. 286) granting an injunction to R. J. Reuter Co., Ltd., Slough, restraining him from infringing their trade-mark 4711 in connection with eau de Cologne, and from representing that the Reuter company's products, sold under that mark, were not the genuine 4711 products. The judge also granted the Reuter company a declaration that F. Mülhens was not entitled to use their mark in relation to eau de Cologne not produced by them. F. Mülhens counterclaimed for an injunction restraining passing-off in connection with certain features of the label, the red top and shape of the bottle. There was a cross-appeal by the Reuter company against the dismissal of their claim for damages for slander of goods, the allegation being that the Cologne firm had sent letters to people in this country saying that the Reuter company's goods were "non-genuine 4711." The cross-appeal was dismissed, with costs. In a reserved judgment, the Master of the Rolls (Sir Raymond Evershed) said that Mr. Justice Danckwerts was correct in all his conclusions. Lord Justice Birkett and Lord Justice Romer concurred. Leave to appeal to the House of Lords was granted.

BUSINESS CHANGES

MR. JOHN CHAPMAN, M.P.S.N.I., has opened a pharmacy at 34 Castle Street, Lisburn, co. Antrim.

PLYMOUTH CO-OPERATIVE SOCIETY, LTD., are opening pharmacies shortly at Whiteleigh Green, Whiteleigh, Plymouth, and at Torridge Way, Efford, Plymouth.

Appointments

UPJOHN OF ENGLAND, LTD., have appointed Mr. K. H. R. Collard, B.A., M.P.S., their sales supervisor.

FLETCHER, FLETCHER & CO., LTD., Vibrona Laboratories, Holloway, London, N.7, have appointed Mr. D. Maxwell Bryce, B.Pharm., B.Sc., Ph.C., A.R.I.C., their chief chemist.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

WAVELINES, LTD. (P.C.).—Capital £100. To carry on the business of wholesale and retail chemists and druggists, etc. Directors: Donald A. Faulder and Ethel Ford. Solicitors: Woodham Smith, Borrodaile & Martin, 212 Strand, London, W.C.2.

BOYDELLES, LTD. (P.C.).—Capital £2,000. To carry on the business of chemists, druggists, ophthalmic and dispensing opticians, etc. Directors: Hilda Rigby and Fred N. Rigby, M.P.S., R.O.: 155 Walton Road, Liverpool, 4.

J. D. McDERMOTT, LTD. (P.C.).—Capital £3,000. To carry on the business of wholesale, retail and manufacturing chemists, druggists, etc. Directors: John D. McDermott, M.P.S., and Constance E. McDermott. R.O.: 1 Raynor Road, Fallings Park, Wolverhampton.

PARRY ASH & CO., LTD. (P.C.).—Capital £100. To carry on the business of manufacturing and general chemists, druggists, opticians, etc. Directors: Wynn H. Parry-Jones, M.P.S., and Carl Ash, M.P.S., R.O.: 6 Lewisham Road, Greenwich, London, S.E.13.

GREENSWOOD PHARMACY, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing and general chemists, etc. Directors: Albert R. P. Head, M.P.S., Roman A. Katarzynski and Doris W. P. Head. R.O.: Greenwood Pharmacy, Greenwood Road, Brixham, Devon.

DURAZONE (SALES), LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of cleaning preparations, soap and washing materials, detergents, etc. Subscribers: W. Rajbenbach, LL.B., and Henry Teper. Solicitors: Tarlo Lyons & Co., 16 Manchester Square, London, W.1.

F. R. BURTON, LTD. (P.C.).—Capital £1,000. To acquire the business of a chemist and photographic dealer carried on by F. R. Burton, M.P.S., at New Street, Wellington, Salop. Directors: Frank R. Burton, Alice M. Burton, David Burton, Eric G. Martin, M.P.S., and George Howick.

B. COCHRANE, LTD. (P.C.).—Registered in Belfast. Capital £1,000. To carry on the business of chemists and druggists at 1b Clonard Street, Belfast. Subscribers: Patrick J. McQuillan, M.P.S.N.I., and Brigid McQuillan. The first directors are not named.

EDWARDS (MOORCROFT), LTD. (P.C.).—Capital £3,000. To carry on the business of wholesale and retail chemists, druggists and dispensers, etc. Directors: Henry Ellis, Teresa P. Drubbe and Walter Edwards. R.O.: 164 Moorcroft Road, Northern Moor, Manchester.

H. R. TULK, LTD. (P.C.).—Capital £5,000. To carry on the business of analytical, manufacturing and general chemists, herbalists and seedsmen, etc. Directors: Leonard B. Littlewood, M.P.S., 62 High Street, Esher, Surrey, and Ezra Littlewood. R.O.: Offices of E. J. George & Partners, 329 High Holborn, London, W.C.1.

T. R. GOVER, LTD. (P.C.).—Capital £2,500. To carry on the business of consulting, analytical, manufacturing and general chemists, opticians, etc. Subscribers: Thomas R. Gover, M.P.S., 10 Walton Street, Walton-on-the-Hill, Tadworth, Surrey, and Joan P. Gover. The first directors are not named. R.O.: 14 Strand Parade, Field Place Estate, Goring-by-Sea.

MASKELLS FERTILISERS, LTD. (P.C.).—Capital £100. To carry on the business of chemists, merchants and manufacturers of and dealers in artificial and natural chemicals and fertilisers, etc. Subscribers: H. M. Hacker and George Stuart. The first directors are to be appointed by the subscribers. Solicitor: George Stuart, 51 Northways, Swiss Cottage, London, N.W.3.

DEODOR-X HYGIENE SERVICES (TYNESIDE), LTD. (P.C.).—Capital £5,000. To carry on the business of sellers of fumigating and disinfecting products and to render services in connection therewith, etc. Directors: Hylton F. G. Sheppard, James H. Chandler, Frank L. Coventry, Richard F. Heron and Fred H. Dale. R.O.: 309 Corporation Road, Birkenhead.

WALTER DAVIDSON & SONS, LTD. (P.C.).—Registered in Edinburgh. Capital £15,000. To acquire the business of chemists now carried on as Walter Davidson & Sons, at Wellmeadow, Blairgowrie; The Cross, Coupar Angus; and George Street, Perth. Directors: John D. Davidson, M.P.S., Norman Davidson, M.P.S., W. Davidson, M.P.S., D. W. M. Davidson, R.O.: Wellmeadow, Blairgowrie.

Company News

Previous year's figures in parentheses

LAPORTE INDUSTRIES, LTD.—An interim ordinary dividend of 5 per cent. (2½ per cent.) is declared.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Mr. Stephen France Burman, M.B.E., has been appointed to the board and will act as a non-executive director.

SCHOLEFIELD, GOODMAN & SONS, LTD.—The business is to be acquired by a new company having an increased capital. The members, directors, management and staff of the new company will be as before, and the new company will continue to trade under the name Scholefield, Goodman & Sons, Ltd.

REXALL DRUG CO., LTD.—Mr. Arthur F. Quantrell has taken up the position of managing director of the company upon his return from a tour of America and Canada. He has also been appointed to the board of Riker Laboratories, Ltd., and managing director of VCA Pharmaceuticals, Ltd. (Great Britain).

CARNEGIES OF WELWYN, LTD.—The new company registered under that title (see *C. & D.*, October 17, p. 390) regroups into one entity the following four companies:—Carnegie Brothers (1949), Ltd.; Carnegie Chemicals (Welwyn), Ltd.; Carnegie Organics, Ltd.; and Carnegie Quinine Works, Ltd. The authorised capital of the new company is increased to £300,000. There is no change in the management or control of the business.

PERSONALITIES

SIR OLIVER FRANKS, the guest of honour at the recent annual dinner of the Association of British Chemical Manufacturers (p. 417) is probably best known in the chemical industry as having been in charge of the raw materials department of the Ministry of Supply during the 1939-45 war. His lucid and active mind was there of immense value in sorting out competing rival claims and needs. His outstanding record of service, however, was as Ambassador to the United States from 1948 to January 1953. There, whilst worthily upholding the traditions of Britain, he was able to breed understanding and good will, no matter to what country his duties took him.

MR. A. T. GLENNY, F.R.S., B.Sc. (until 1947 head of the immunology department, The Wellcome Foundation, Ltd., London) recently received the Jenner medal of the Royal Society of Medicine from the president of the Society (Sir Francis Walshe) for his outstanding contributions to immunology, with special reference to his work on



Mr. A. T. Glenny, F.R.S., receives the Jenner medal from Sir Francis Walshe.

diphtheria immunisation. Mr. Glenny's first ambition was to become a mathematician and shortly after joining the staff of the Wellcome Physiological Research Laboratories early in 1899 he discovered that his mathematical ability could be applied to assist scientific research and production. He took a degree in mathematics shortly after the turn of the century. Mr. Glenny early developed a system which provided full information about the course of preparation of any product. He was, in 1904, the first person in England to use diphtheria toxoid for the immunisation of horses. A few years after the 1914-18 war he and a colleague first suggested diphtheria toxoid as a human immunising agent. He was one of the workers who discovered the value of adding alum to the toxoid, and he was able to recommend the use of alum-precipitated toxoid as an antigen. He also studied the subject of immunisation by the use of tetanus toxoid and in 1938 described methods for testing the immunising powers of tetanus prophylactics and for the estimation of the antitoxic properties of small quantities of human sera. In spite of his official retirement Mr. Glenny is still engaged on writing up research papers in connection with the work of the Foundation.

MARRIAGES

TOHER—HUGHES.—At University Church, St. Stephen's Green, Dublin, recently, Anthony Aloysius Toher,



Group at wedding of Mr. Toher

M.C.P.S.I., 2 Stephen Street, Sligo (son of Mr. T. P. Toher, M.P.S.I., Sligo) to Miss Monica Hughes, Sligo.

Silver Wedding

ROBINSON—WYKES.—At High Street Congregational Church, Wellingborough, Northants, on September 20, 1928, Robert James Robinson, M.P.S., to Doreen Gwendolen Wykes. Present address: 17 High Street, Hemel Hempstead, Herts.

DEATHS

BOYD (see *C. & D.*, October 17, p. 391).—Mrs. E. N. J. Jones (secretary, National Association of Women Pharmacists) writes, on behalf of the N.A.W.P.: Miss Boyd had been elected recently to the executive committee of the Association. She was serving as a joint secretary and had also taken over the duties of treasurer. We mourn a keen and able worker who will be missed greatly and whom those of us who knew her had come to regard with affection.

The Association was represented at the funeral by Mrs. Jones and Miss M. C. Dodd (registrar). Other women pharmacists present included Mrs. B. Fryer and the Misses M. Green, F. B. Prince, M.B.E., and G. M. Watson, all of Nottingham.

FINDING.—At his home Tan Yr Allt Isaf, Abererch, Pwllheli, Carnarvons, on October 14, Mr. L. George Finding, M.P.S. Mr. Finding was, until his retirement owing to ill-health about two years ago, proprietor of a business in Market Street, Wellingborough. His retirement marked the end of a family association with the business founded by his wife's grandfather over eighty years previously.

KIPLING.—On October 7, Mr. Joseph Boyes Kipling, M.P.S., 1 Hill View Avenue, Chapel Allerton, Leeds, 7, aged eighty-three. Mr. Kipling managed for over thirty years the business of Reinhardt & Sons, Ltd., Leeds. He was a cousin of the poet Rudyard Kipling.

OAKES.—On October 6, Mr. Edwin York Oakes, M.P.S., 15A The Strand, Exmouth, Devon. Mr. Oakes was aged eighty-one.

TRADE NOTES

Sole Agent.—Halewood Chemicals (Overseas), Ltd., 111 Eastbourne Mews, London, W.2, have been appointed the sole agents for the United Kingdom and Eire of Cilag, Ltd., Schaffhausen, Switzerland, producers of fine chemicals.

United Kingdom Concessionaires.—Chemicals Trading Co., Ltd., 102 Bishopsgate, London, E.C.2, are the sole concessionaires in the United Kingdom for the Imhausen suppository bases (see *C. & D.*, October 10, p. 368).

Available on November 7.—Riker Laboratories, Ltd., 29 Kirkewhite Street, Nottingham, state that the introduction of Rauwiloid (for hypertension) was prematurely announced. Supplies of the product will not be available until November 7.

Triple-action Sheep Remedy.—Minel phenothiazine and hexachlorethane dispersible powdered, issued by Imperial Chemical (Pharmaceuticals), Ltd., Wilmslow, Manchester, is designed to clear out roundworms and liver flukes from sheep and provide the essential minerals, copper and cobalt. Minel is widely advertised to farmers at appropriate seasons.

Now in Supply.—Sandoz Products, Ltd., 134 Wigmore Street, London, W.1, announce that Cafergot tablets are now available in limited supply at the prices quoted in the company's price list issued in February 1953. Each tablet contains 1 mgm. of ergotamine tartrate and 100 mgm. of caffeine alkaloid. Cafergot is indicated in the treatment of migraine. Since October 26 a new hypnotic and day-time sedative, Plexonal tablets, has been available.

Extending Again.—When the Energen Foods Co., Ltd., transferred all its manufacturing activities to a new factory at Ashford, Kent, a year ago, the greatly increased productive capacity was expected to enable the company to meet the steadily growing demand for Energen starch-reduced rolls and other products. So rapidly has the demand increased during the year, however, that the installation at Ashford was still not sufficient to meet all orders. Work has therefore begun on an extension to the Ashford factory. Meanwhile the company is reopening its old factory at Willesden, London, and will shortly be able to meet all orders promptly and in full.

Two Days in London.—Two girl assistants of Mr. P. McMurray, Glasgow, personal prizewinners in the September Modess sales competition organised by Johnson & Johnson (Great Britain), Ltd. (see *C. & D.*, October 17, p. 393), have been in London on the two-day holiday that was their prize. They each receive an evening gown costing £150, by the fashion designer Michael, and have chosen to visit Madame Tussaud's, the Palladium, the Crown Jewels, the Changing of the Guard at Buckingham Palace, and Ealing Film Studios, and to have a Mayfair "hair-do." After two days at the Dorchester, a late Cabaret dinner at the Savoy, visits to the Trocadero, Caprice, etc., with a chaperone, and in a chauffeur-driven car, they return to Glasgow on Saturday evening to start work again on Monday morning.

NEW PRODUCTS AND PACKS

New Tin and Carton.—Medico-Biological Laboratories, Ltd., Cargreen Road, South Norwood, London, S.E.25, are now issuing their "family" ointment, St. James' balm, in a new and distinctive tin and carton.

Automatic Lipbrush.—Helena Rubinstein, Ltd., 3 Grafton Street, London, W.1, have introduced a new



automatic sable lipbrush with unusual features. The press of a button releases the brush, which locks into its open position for use. The lipbrush is available in alabaster pink or turquoise blue.

Sample and Bonus.—To introduce their new product Cosmana hand beauty cream Dendron Distributors, Ltd., 94 Rickmansworth Road, Watford, Herts, are giving a free sample of it with every bottle of Cosmedin beauty lotion. For dealers there is a bonus of

thirteen to the doz. whether ordered direct or through wholesalers.

Seasonable.—Thornton & Ross, Ltd., Linthwaite, Huddersfield, are marketing a new speciality in their Samaritan Series: Samaritan menthol and winter-green cream. The product is packed in 1-oz. tubes, each in individual carton, and issued in display outer of 1 doz. Details and samples may be obtained from the company by any chemist interested.

"Two-phased" Asthma Therapy.—An ingenious method of dealing with asthmatic attacks is represented by the Iso-Bronchisan tablets made by Silten, Ltd., Hatfield, Herts. Each tablet has a sublingually soluble outer layer containing isopropyl *nor*-adrenaline. When that has been absorbed by the mucous membrane to give a broncho-dilatory effect the remainder of the tablet, containing ephedrine hydrochloride and theophylline, is swallowed to give a prolonged antispasmodic action on the bronchial smooth muscle. Iso-Bronchisan tablets are issued in tube of twenty.

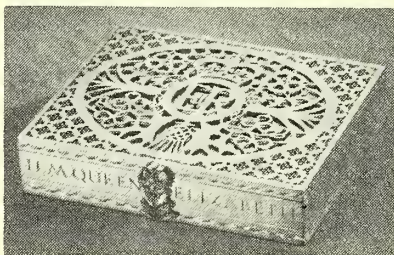
PLATINUM METALS

A Technical and Historical Exhibition

AN exhibition devoted to the "platinum metals" (platinum, palladium, rhodium, osmium, iridium and ruthenium), organised by the Institute of Metallurgists, was held in London, October 22-24. The exhibition dealt with occurrence and extraction, uses in various industries, and history of the metals. Samples of ores and of intermediate products in refining processes

of a platinum oxide catalyst. On view were samples of catalyst masses comprising platinum, palladium, rhodium or ruthenium dispersed on alumina, silica gel and other media. The fact that palladium catalyses the oxidation of hydrogen to water is made use of in an apparatus shown for removal of water (by oxidation and subsequent drying) from hydrogen and in another for the detection and estimation of oxygen as an impurity in other gases (the instrument measures the heat produced by the reaction between oxygen and hydrogen).

When optical glass is melted it is necessary that contamination by metal oxides, and consequent discoloration, should be avoided. For that purpose platinum crucibles are used and examples (over 1-ft. high) were exhibited. Among exhibits dealing with medical science and dentistry were examples of dentures in gold-platinum-palladium alloys and platinum alloy containers for radium. Scientific laboratory apparatus shown included platinum crucibles and dishes, electrolytic analysis apparatus with platinum electrodes and a high temperature electric furnace incorporating a platinum-wound element. The historical part of the exhibition contained among other things literature mentioning early reports of the discovery and uses of platinum and the other metals, specimens with historical associations (e.g. those of palladium given by W. H. Wollaston (who discovered palladium and rhodium) to Michael Faraday) and a press with which Wollaston compressed "muds" of finely divided platinum and water to obtain 16-oz. blocks of platinum which were later heated and forged to obtain maximum density. The exhibition celebrates the 150th anniversary of Wollaston's anonymous announcement of the discovery of palladium.

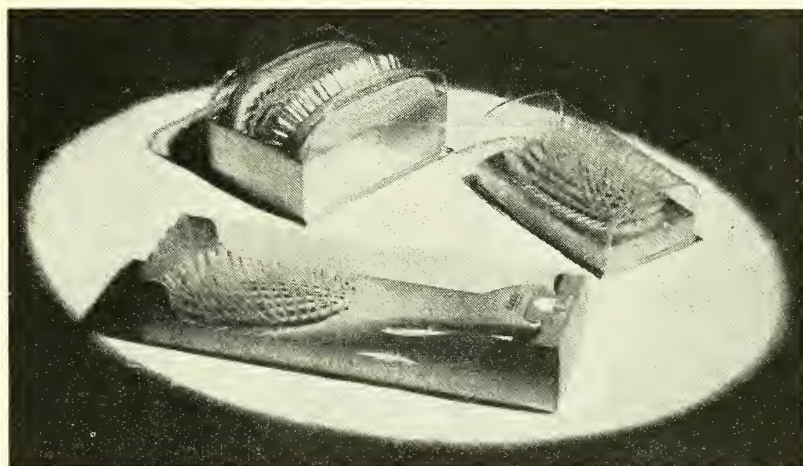
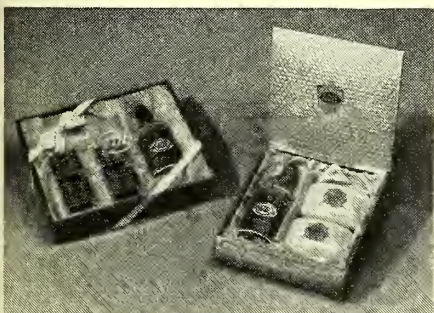
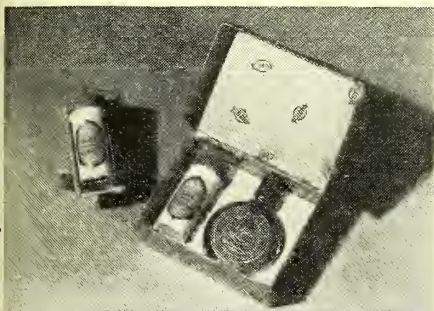


POWDER BOX GIFT TO QUEEN: A powder box entirely of metals of the platinum group (predominantly platinum and palladium but with rhodium, iridium, ruthenium and osmium used as hardeners) was accepted by the Duke of Edinburgh on behalf of the Queen at the opening of the Platinum Metals Exhibition on October 19 as a gift from the Institution of Metallurgists. The box weighs about 8½ oz. Troy (about 265 gm.). Making the cover, which is of a hard stiff alloy, involved a thousand individual hand piercing operations.

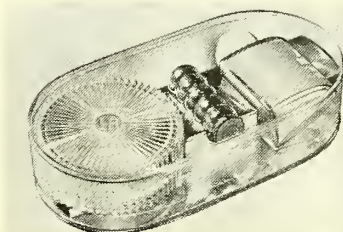
accompanied a large map of the world that showed the location of deposits of platinum minerals with diagrammatic representations of extraction and refining processes. Among exhibits showing the application of the metals in chemistry and the chemical industry were five photographs (supplied by Glaxo Laboratories, Ltd., Greenford) of stages in the manufacture of dihydrostreptomycin and accompanying notices explained that the hydrogenation reaction is done with the agency

More Gift Packs

FOR THE CHRISTMAS TRADE



Christmas gift packs shown above are, from top to bottom:—James B. Williams Co. (England), Ltd.'s pack contains Williams Aqua Velva after-shave lotion and a Williams shaving stick; R. J. Reuter Co., Ltd.'s 4711 packs containing solid eau de Cologne and containing both solid eau de Cologne and watch-shaped Cologne; left, silk-lined presentation pack containing standard 4711 eau de Cologne bottle, eau de Cologne bath cubes and soap, and right, silk-lined pack containing standard 4711 eau de Cologne bottle and two tablets of eau de Cologne cream soap; left, watch-shaped eau de Cologne and bath cubes, centre, watch-shaped eau de Cologne and talcum powder, right, watch-shaped eau de Cologne and cream soap. Distributors for above: Scott & Bowne, Ltd.



Top: Coffrets by Potter & Moore, Ltd., containing shaving bowl, brilliantine, and after-shaving lotion; and lavender, soap and bath cubes. In foreground is "Go'den Hind" novelty with Mitcham lavender. Centre: Lady's hairbrush No. 1210; gent's hairbrush No. 810 packed singly and in pairs in acetate cases; makers are Oakfield & Co. (Wyrex Brushes), Ltd. Third row: Gifts by Helena Rubinstein, Ltd.: Green Velvet guest soap: bath trio of bath essence in glass bottle, skin perfume and talcum in plastic bottles; and flower-shaped Apple Blossom guest soap. Left: Silk make-up box, by the same company, containing face powder, tone foundation and lipstick.

BRANCH AND ASSOCIATION MEETINGS

PORTSMOUTH

Film Show

At a meeting of the Portsmouth Branch of the Pharmaceutical Society held in Southsea on September 24, Mr. H. N. Griffiths (chairman) presiding, forty-five members and a number of students were present to see two films by courtesy of Pharmaceutical Specialities (May & Baker), Ltd. They were: "Antihistamine Agents" and "Medical Applications of Sulphonamides." The films were introduced by Mr. C. R. Day (medical information division, May & Baker, Ltd.).

HULL

President's Reception

THE winter programme of the Hull Chemists' Association and Branch of the Pharmaceutical Society opened with a reception given by the president (Mr. F. Lister Booth) and committee in Hull on October 1. Following whist and refreshments, prize presentations were made to student associates of the Branch. The Society's prize of the British Pharmaceutical Codex was awarded to Miss M. Thirsk and the Hull Chemists' Association prize to Mr. Colin Watson. Films, made by the treasurer (Mr. F. N. Harrison), were exhibited, and one of them recorded a summer visit of members to Chatsworth House. Thanks to the president and committee were proposed by Mrs. A. E. Brocklehurst and seconded by Mr. Ashley Cluff.

SOUTH-WEST LONDON

Report on Hospital Purchasing

A MEETING of the South West Metropolitan Hospital Pharmacists' Committee was held in London on October 8. The meeting adopted a report of a subcommittee that had been considering possible methods of effecting economies in the purchase of pharmaceutical supplies by a system of joint purchasing arrangements between hospital groups. It was decided to convene a meeting of hospital pharmacists employed in the South-west Metropolitan Region (excluding the Western Area) to discuss recommendations suggested in the report and other matters of topical interest. It is to receive and consider suggestions concerning the future activities of the committee. The meeting is to be held at 17 Bloomsbury Square, London, W.C.1, at 3 p.m., on November 14.

WEST LONDON

Film Show

THE Western [London] Pharmacists' Association opened its 1953-54 session in London on October 13 with a film show. Three films were shown and each was introduced by Dr. R. McKeith (child physician, Guy's Hospital, London). The first, "Life with Baby," showed stages in muscular development and demonstrated a child's limitations in mental and physical response at each stage illustrated. The second, "Case of Rheumatic Chorea," had been produced by the introducer. The film pro-

voked much discussion. The final film, "Feeling of Hostility," was a psychological study depicting the effects of the loss of a loved one and subsequent neglect by a foster parent upon a small child. The meeting was well attended. Mr. P. J. White was responsible for arranging the show.

SLOUGH

Improved Remuneration Claim

At a meeting of the Slough Branch of the Pharmaceutical Society at Slough, on September 22, Mr. H. Noble (secretary of the National Pharmaceutical Union) said that although the Central National Health Service (Chemist Contractors) Committee had put in a claim to the Ministry of Health eighteen months ago for increased dispensing fees and container allowance, so far not even a compromise had been reached with the Ministry. He pointed out that pharmacists had at first been slow in providing evidence to substantiate their claim, that the Committee's figures had been passed to the Ministry of Health, which in turn had passed them on to Board of Trade experts, and that that action had taken a great deal of time. There was no sign of any settlement in the near future. Mr. Noble pointed out that, from October 1, doctors were required to specify exactly what type of elastic stocking was required on prescriptions. Any chemist who had a prescription showing insufficient detail might find himself in trouble with the Ministry of Health later.

GLASGOW

A Successful Session

THE annual meeting of the Association of Glasgow Pharmacists was held in Glasgow on October 1, Mr. W. T. Wilson (president), in the chair. The secretary reported that during the year eight meetings had been held. Although they had been successful, the attendances were not up to the expectations and hopes of the committee. An attractive syllabus had been arranged for the forthcoming session and it was hoped members would attend regularly. The death of Mr. G. M. C. Stewart (a former member of the committee of the Association) was deeply regretted. During the year the committee had requested an investigation into a case reported by a member where a doctor was consulting in premises occupied by a non-chemist contractor. A number of members of the Association were congratulated on the active interest they were taking in National Health Service matters affecting the well-being of the individual chemist contractor, and it was reported that several members had been elected to the Scottish Pharmaceutical Federation committee. The financial report and two alterations to the constitution of the Association were approved. The constitution now allows the subscription of any member joining after March 31 to be valid for the whole of the ensuing year; and allows pharmacists who reside outside the Glasgow postal areas to be members of the Association.

PHOTOGRAPHIC DEALERS AT DINNER

President as "Cabaret Artist"

THE annual dinner of the Photographic Dealers' Association, held in London on October 8, attracted a record attendance. A feature of the evening was that the president (Mr. Lyall G. Smith, M.P.S.I., Dublin) demonstrated his

"turn" that left him dizzy and the spectators breathless in admiration.

The toast was coupled with the name of the president of the Royal Photographic Society, and in proposing it Mr. LYALL SMITH said that "the Royal" had done more to bring about happy conditions in the science and practice of photography than any other society. Its wisdom had established it as the most eminent photographic society in the world. The R.P.S. gave great encouragement to the photographic trade and especially to the retail trade. Members' business was to "sell" photography. They had been pleased that during Coronation year there had been more colour film available. There still was not nearly enough, and they would all like to see it available at a decreased price.

In his reply, Mr. BERTRAM SINKINSON, F.I.B.P., F.R.P.S., said that the P.D.A. dinner appeared to prove that there was "still a little silver yet in the photographic emulsion." The function of his own Society, he said, was to provide a platform for the free expression of the arts and sciences of photography.

During the evening THE PRESIDENT presented the members' exhibition challenge cup (donated by the Federated Photographic Manufacturers) to Mr. Dudley Styles, A.I.B.P., A.R.P.S., Dorking, this year's winner.



Mr. Lyall G. Smith (president) speaking at the P.D.A. dinner on October 8.

versatility as host and entertainer by following his address as proposer of the toast "Photography and our Guests" by volunteering later in the evening as team-mate in a cabaret

CHEMICAL MANUFACTURERS' ANNUAL DINNER

THE annual dinner of the Association of British Chemical Manufacturers was held in London on October 14. Numbers were limited to the same figure as last year and it is understood that about a hundred applicants for tickets were unsuccessful.

The loyal toast having been honoured, THE CHAIRMAN, proposing "Our Guests," said that the gathering was just as large as in 1952, and guests were again numerous. They included the permanent secretaries of the Ministry of Supply (Sir James Helmore), and Ministry of Materials (Sir Eric Bowyer); the second secretary to the Board of Trade (Sir Maurice Dean); the new president of the Federation of British Industries (Sir Harry Pilkington); accompanied by his predecessor (now "turned into steel"), Sir Archibald Forbes; the chairman of Imperial Chemical Industries, Ltd. (Dr. Alexander Fleck); the secretary of the Agricultural Research Council (Sir William Slater); the chief inspector of factories (Sir George Barnett); and the chief scientist, Ministry of Supply (Dr. Wansbrough-Jones); representatives of Government departments, trade associations, scientific and learned societies, and the Press.

Improved Trading Conditions

In 1952 most members of the Association had been conscious of the approach, or indeed the existence, of a trade recession which became marked in most sections of the industry. It would be agreed that that "shake out" had had a salutary effect and injected more realism into trading operations. Conditions had undoubtedly improved during the past six months, but the earlier conditions had inevitably pulled back export trade figures. Total exports in 1952 had totalled £138 millions in value, against a record figure of £143 millions in 1951. That was not a catastrophic change, but it was in the wrong direction. In new construction the picture was more encouraging. Schemes foreshadowed in 1948 were of the order of £190 millions. The greater part of those schemes would be completed by the end of 1953. Further expenditure of the order of £230 millions was scheduled or under contemplation. In research, 1948 expenditure was £8½ millions, the present figure £11½ millions, soon to reach nearly £13 millions. That clearly indicated confidence, competence and courage. The chemical industry could claim to be second to none in terms of enterprise, growth and public service in peace or war. Taxation, however, still acted as a brake on capital projects.

Mr. Hayman concluded by introducing the Association's guest of honour: Sir Oliver Franks.

THE RT. HON. SIR OLIVER FRANKS, P.C., G.C.M.G., K.C.B., C.B.E., in response to the toast, spoke on the relationship of the chemical group of industries to the standard of living. There had been long periods in which productivity and its correlate, real income, had steadily and markedly

risen, and there had been long periods in which productivity had hardly moved and real income had not risen. From about 1860 to 1885 productivity and real income rose fast and steadily. In the subsequent decade the process slowed down, and from something like 1895 to 1914 productivity, real income, and the standard of living remained almost stationary, and only picked up again after the 1914-18 war, in the '20's and '30's, with another great forward swing, a swing of greater productivity, a rise in real income. The movement of the terms of trade was not big enough to account for that. It was not to be explained by movements in capital investment. Sir Oliver suggested that it was something broader and more simple. From 1860 to 1885 there had been the massive application through many branches of industry of two very great groups of inventions, steam and steel. Railways were built, power utilised, machines made on a scale revolutionary in its extent; and it was that which produced the sustained rise in the standard of living and in productivity in the middle of the Victorian era. From 1885 on, men made technical developments, but the revolution was over. The time of improvements had come. It was not until the '20's and '30's that the next great lift in productivity began. Three industries sustained that movement, based on electricity, the internal combustion engine in the motor and aircraft industries, and the chemical industries.

"Twofold Responsibility"

"Why do I tell you all this? Because I think that on your group of industries, together with the other two I have mentioned today, there rests a rather special responsibility." That responsibility was twofold. "By your ingenuity, by your application of your discoveries, by the width of their application, we look to you to continue so to lift our economy that productivity moves up higher, instead of slowly sagging and falling." In the popular mind, what he was talking about as a symbol and as a question mark went by the name of the Atomic Age—the possible peaceful application of atomic energy. Let none think that progress, productivity, rise in real income, were assured. They were not. They depended not on Britain's wealth of raw materials, not on physical resources, but "on our wits and on our guts."

Annual Meeting

The Association's annual meeting was held in London on October 15. In his address as chairman, MR. C. G. HAYMAN drew attention to a number of items in the annual report, of which he moved the adoption. He said that the report of the Heavy Chemicals Productivity team that had visited the United States in the Spring of 1952, published in the year dealt with in the annual report, had proved to be one of the best, if not the best, of some sixty reports by such teams from various sections of British indus-

try. Jointly with the Association of Chemical and Allied Employers and the trade unions, the Association had appointed a steering committee to stimulate the study of the report and the carrying out of its excellent and far-reaching recommendations in so far as they were feasible under present conditions. Area committees had been set up to continue the work in their particular districts, operating in association with local committees set up by the British Productivity Council. To implement the Heavy Chemical team's recommendations, more scientific and technical personnel of all types were required. The Association would shortly issue a questionnaire in an attempt to estimate the requirements of the industry in, say, five years' time, so that steps could now be taken to augment the supply. Under the guidance of the steering committee a report was being prepared on the forward plans of the chemical industry.

The sulphur problem was being largely overcome by the more extensive use of home sources and by greater economy in the use of sulphuric acid. The earlier difficulties with coal-tar products, however, were likely to recur. He emphasised the need for close collaboration between those concerned with the production and with the consumption of critical raw materials. The problems confronting our industry tended to increase rather than diminish, and there were clouds on the horizon. With the co-operation of its members the Association could serve the industry.

Other points from the annual report, which was adopted, were that the Association had, with the Association of British Pharmaceutical Industry, secured assurances from the Ministries of Health and of Agriculture and Fisheries that industry would be consulted before detailed regulations were made under the Therapeutic Substances (Prevention of Misuse) Act, "provided it was clearly understood that the final decision on such matters must be taken on health grounds," that a special meeting of potential exhibitors had approved a proposal to transfer the chemical section of the British Industries Fair to Birmingham; and that a committee of the Association was examining, with the London and Home Counties Regional Advisory Committee for Higher Education, the need for post-graduate courses in applied technology, particularly in the chemical aspects of the disposal of trade wastes.

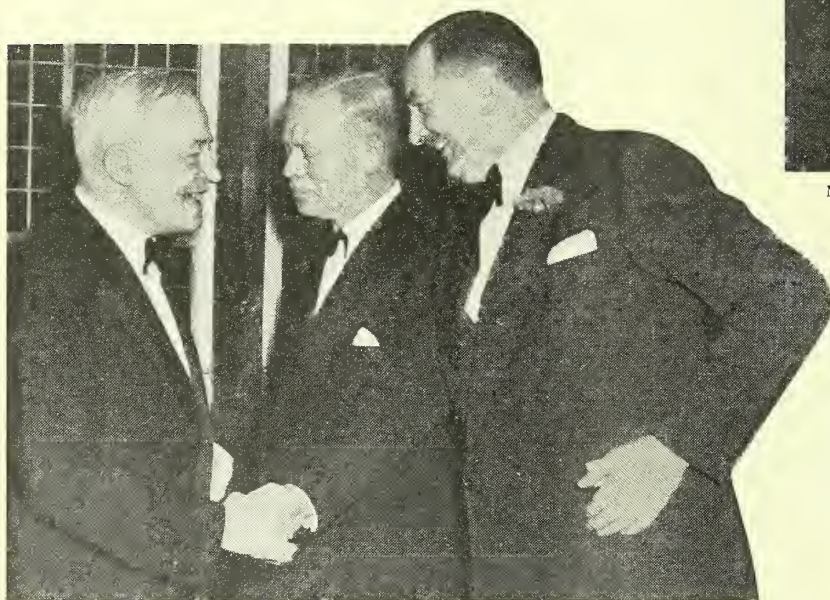
About 550 people attended a Conference organised by the Association at Buxton for directors and senior executives on the subject of work study, the lecturers being members of the work-study organisation of Imperial Chemical Industries, Ltd.

Officers for 1953-54

The annual meeting elected the following officers:—*Chairman:* Mr. W. J. Worboys, *Vice-chairman:* Mr. G. F. Williams, *Treasurer:* Mr. J. L. Harvey, M.B.E.

PERSONALITIES OF THE CHEMICAL INDUSTRY

and their guests at the annual dinner of the
*ASSOCIATION OF BRITISH CHEMICAL
MANUFACTURERS*



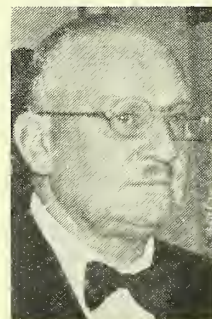
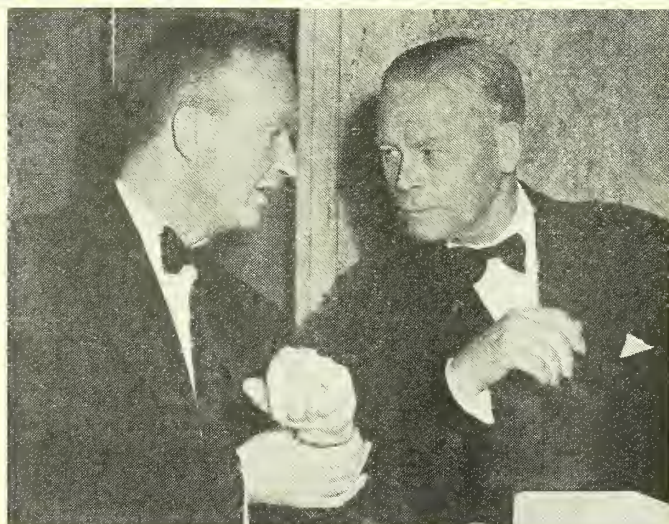
Messrs. B. H. Langley and A. J. McIntyre.

At left: Sir William Palmer, K.B.E., C.B. (chairman, Dye-stuffs Advisory Committee) being received by the president and secretary of the Association (Mr. C. G. Hayman and Mr. J. Davidson Pratt, C.B.E.). At left, below: The principal speaker (Rt. Hon. Sir Oliver Franks, P.C., G.C.M.G., K.C.B., C.B.E., lately British Ambassador at Washington) with Mr. C. G. Hayman.

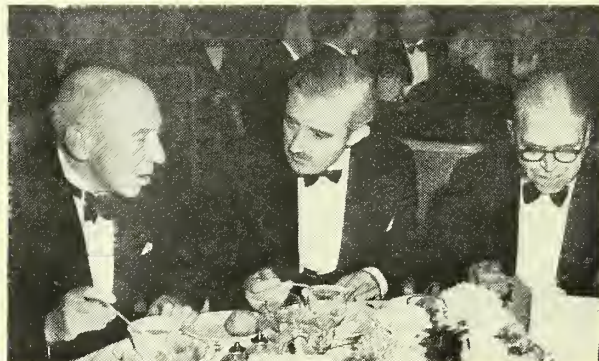
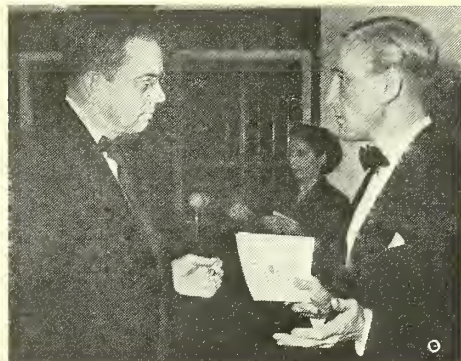


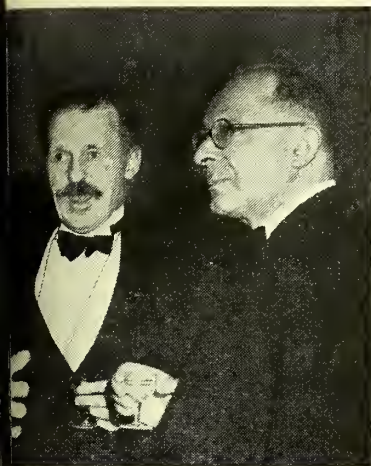
Mr. G. E. British Dis A.B.C.M. Pharmaceu

Mr. G. S. Robinson Harriss, M



Left to right, below: Messrs. L. E. Whitmore and D. A. C. Nichols, T.D. (clerk to the Salters' Company) and Sir George and Mr. L. D. Cocklin. Sir Eric Bowyer, K.B.E., C.B. (Minis D.S.O., M.C. Mr. J. T. Barrie and Dr. C. H. Clark, O.B.E.





W. P. Kennedy and Mr. M. Briscoe.

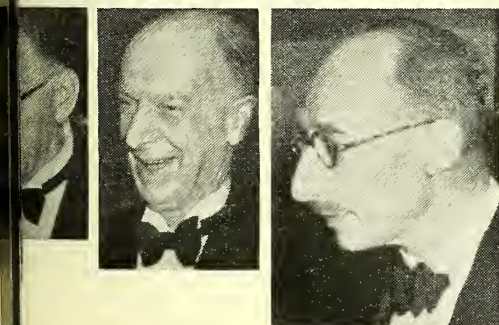
Dr. W. H. Garrett (a member of the A.B.C.M. Council) and Professor C. K. Ingold, F.R.S.

Mr. A. R. Bruce (Board of Trade) and Sir R. Duncalfe (a vice-president of the Association).

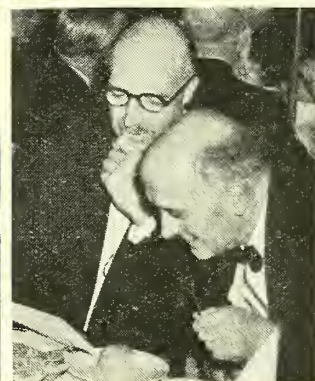
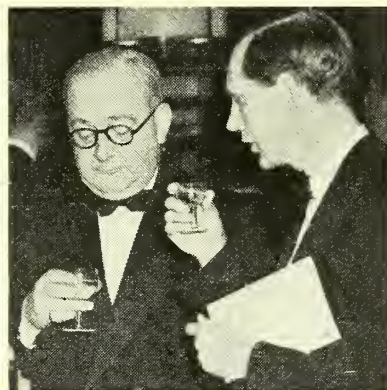


of the A.B.C.M. Council), Mr. A. E. Berry (chairman, Association), Mr. I. V. L. Fergusson (a member of the Duckworth (assistant secretary, Association of British

ish Chemical & Dyestuffs Traders' Association), Mr. S. Tar Association), Major F. H. Bramwell, Captain W. e B. Diamond (director, British Plastics Federation).



gg (president, Society of Chemical Industry). Mr. W. R. of factories), Dr. T. Corlett Mitchell, Dr. E. D. Kamm William Reid and Lt.-Gen. W. J. Eldridge, C.B., C.B.E..



Top left: Sir Harry Jephcott (president, Royal Institute of Chemistry) with Mr. T. Hestline (president, Pharmaceutical Society of Great Britain). Top right: Messrs. J. V. Crossley and E. G. Williams. Bottom left, above: Professor A. Haddow (director, Chester Beatty Research Institute) with Lord Halsbury (managing director, National Research Development Corporation). Bottom right, above: Mr. T. M. Wilcox and Dr. E. R. A. Merewether, C.B.E..



PHARMACEUTICAL SOCIETY OF IRELAND

Monthly Meeting of Council

A MEETING of the Council of the Pharmaceutical Society of Ireland was held in Dublin on October 13, Mr. J. P. Kissane (president) in the chair. There were present Messrs. M. Costello (vice-president), H. P. Corrigan (treasurer), J. Gleeson, C. D. O'Shea, T. B. O'Sullivan, P. Brooke-Kelly, F. J. Robinson, D. J. Kennelly, Senator F. Loughman, Messrs. P. Fullam, A. A. Toher, G. C. O'Neill, P. F. McGrath, N. A. McKane, M. Power, C. J. Cremen, and T. C. Scott. Mr. J. G. Coleman (registrar) was in attendance. Apologies for inability to attend were received from Messrs. R. Daly and P. A. Brady.

Election of Officers

The first business was the election of officers. THE PRESIDENT, proposing the name of Mr. Michael Costello for *President*, said there was no need to say how worthy Mr. Costello was for the honour. He had always been in the forefront of pharmaceutical activities and for the past two years no one could have been more helpful to him as vice-president. No matter how exacting the duty he was always ready to undertake it. With his experience on the Council and as a former president of the Irish Drug Association, Mr. Costello was ideally suited for the office. Equally valuable was his experience on the social side as a former captain of the Golfing Society. MR. O'NEILL, seconding, said that as one closely associated with Armagh he was happy to be in a position to support the name of a Kerryman for the chair. There was scarcely any aspect of pharmacy, including the industrial, social and athletic sides, in which Mr. Costello did not take an interest. He had represented the Society in Britain and in Northern Ireland with distinction and was in every way fitted for the office. Mr. Costello was unanimously elected, and amidst applause was invested with the presidential medallion of office by Mr. Kissane.

MR. COSTELLO said he appreciated very much the honour conferred upon him and the way in which they had received his election and would do his best for pharmacy in the days ahead. At this stage, Mr. Costello said, it was his pleasant duty to present the out-going president with the past-president's badge as a memento of his two years in the chair. During those two years Mr. Kissane and himself worked as a team and it was a great pleasure to work under him as vice-president. He wished to propose a vote of thanks to Mr. Kissane for the way in which he discharged his duties. He never missed a meeting even though it entailed a journey of 102 miles from Tipperary. He had set an example to other members of the Council on the way in which they should accept their responsibilities. MR. KISSANE, in reply, said the badge would remind him of his happy days of office. He thanked the Council members who had all been so helpful to him, and the registrar and official reporter for their valued co-operation.

Proposing Mr. P. F. McGrath for *Vice-president*, THE PRESIDENT said the selection to that office was more important than usual, since they had to look ahead to the holding of a meeting of the British Pharmaceutical Conference in Dublin. In putting Mr. McGrath's name forward he had been in consultation with the elders of the Council and they had all agreed that Mr. McGrath would be an admirable choice for the "Conference year" president. MR. O'SHEA, seconding, said he was too new a member of Council to evaluate fully Mr. McGrath's qualities but if he only gave a proportion of his business acumen and incisiveness of thought to the Council they would be well served indeed. Mr. McGrath would bring dignity and honour to the position of president. Mr. O'Sullivan, speaking in support, said he had known Mr. McGrath for a long time and had had close contact with him as presi-

dent of the I.D.A. Members would give him their full backing. Mr. McGrath was unanimously elected. MR. MCGRATH, thanking his electors, said he would do his best to live up to the standards of his predecessors and to fulfil the hopes expressed so kindly by the president and Mr. O'Sullivan.

MR. GLEESON proposed the re-election of Mr. H. P. Corrigan as *Treasurer*. He had handled a difficult financial situation, including the change over to the new headquarters with great credit. Mr. Gleeson mentioned particularly his presentation of accounts at the annual meeting. MR. SCOTT seconded. Mr. Corrigan was re-elected with applause. He thanked the Council.

Messrs. J. J. Griffin & Co. were reappointed auditors, and the various Committees of the Council were filled. Completed pages of the registers were signed, and visitors appointed to the October examinations.

Mr. J. J. O'Donoghue (general secretary, Irish Local Government Officials' Union) wrote thanking the Council for the interest it had taken in the matter of having a pharmacist appointed as compounder at the Portrane Mental Hospital (*C. & D.*, July 25, p. 81). MR. O'SHEA mentioned that the present county manager in Cork went out of office during the current year. He hoped that before he vacated office the promised appointment of a pharmacist to Cork Mental Hospital would have been made.

Practical Pharmacy Classes

A letter from Mr. Martin J. Cranley (principal, Kevin Street Technical Schools) informed the Council that he had been notified by the City of Dublin vocational education committee that it had decided that practice classes in pharmacy and pharmaceutical chemistry and a class in materia medica in his Institute should be discontinued. Consequently the only pharmaceutical class which would operate was for the certificate in pharmaceutical chemistry (subject to sufficient members applying). A letter on the same subject was read from Mr. Michael J. Cahill (president, Pharmaceutical Students' Association) stating that in the view of his council the Society should provide special practical pharmacy classes on Wednesday afternoons at a reduced fee, to enable assistants and Licence examination candidates to improve their manipulative skill in dispensing. A further letter was read from Mr. Malachy B. Brophy, M.P.S.I., Dublin, stating that as a result of the cancellation of revision courses at Kevin Street at least forty-five students were disappointed and could not find alternative accommodation. As all the students were contemplating the October or January final examination a critical situation had arisen. A recommendation came from the Schools Committee that the Society itself should provide the revision courses at Shrewsbury Road, at a fee of two guineas. The Council decided to act on the recommendation and provide the facilities asked for.

THE REGISTRAR mentioned that a number of students had inquired when the new British Pharmacopœia would be obligatory for examination purposes. The Council agreed that although the new B.P. was official in the Republic from September 1 questions based on it would not be set for examinations until the October, 1954 examinations.

Mr. Michael R. Burke, who submitted an L.A.H. certificate, was granted registration as a Pharmaceutical Chemist. Preliminary registrations were notified in respect of Margaret Banks, Nora Dorothy Bennett, June Ita Bowman, John J. Corcoran, Brian P. Coyle, Mary Finnerty, Margaret Flynn, John F. Fitzpatrick, Patrick J. Geoghegan, Mary Margaret Hargaden, Catherine Hartnett, John J. McCormack, Peter J. McDonagh, Joan McEntegart, Tadhg Ciaran MacGiolla Riogh, Dolores Cecilia McConnell, Desmond Vincent Marron, John Victor

Moran, Patrick J. O'Brien, Edward John O'Grady, Denis Joseph O'Connell, David St. John O'Doherty, Margaret Mary Shea, Paul Tierney and William J. Murray. The following changes of address were notified:—

Messrs. R. L. Austin, M.P.S.I., to 2 Main Street, Finglas, co. Dublin; B. R. Bailey, M.P.S.I., to 13 Fairfield Park, Rathgar, Dublin; L. D. Byrne, M.P.S.I., to Clydare, Sydney Parade Avenue, Ballsbridge, Dublin; G. P. Breen, L.P.S.I., to Slane, co. Meath; Captain J. Fitzgibbon, M.P.S.I., to 9 Richmond Terrace, Gardiner's Hill, Cork; Messrs. D. Higgins, M.P.S.I., to 25 Castle Street, Tralee, co. Kerry; R. Kingston, L.P.S.I., to the Medical Hall, Lifford, co. Donegal; R. McAuliffe, M.P.S.I., to 20 St. Agnes Road, Crumlin, Dublin; R. T. Poole, M.P.S.I., to The Dorretts, Grange Park, Waterford; M. S. Riordan, M.P.S.I., to 25 Dean Swift Road, Ballymun, Dublin; M. F. Walsh, M.P.S.I., to 212 Upper Kilmacud Road, Stillorgan, co. Dublin; M. C. White, M.P.S.I., to 101 High Street, Kilkenny; and Mrs. A. T. Feely, L.P.S.I., to Dublin Road, Tuam.

The Licence certificates of Misses Ellen Campion and Mary Anne Kiely, and Messrs. Cailain Conefrey and Robert Costigan were signed and sealed. Messrs. J. Carroll, M. Collins, T. D. Higgins, J. M. Kelly and N. McGarry were elected Members of the Society. The following were nominated for membership: Richard Kingston, Lifford, co. Donegal; Derrick C. McGrath, 110 North Circular Road, Dublin; Edward J. Walsh, Church Street, Freshford, co. Kilkenny; Michael R. Burke, 35 Braemor Road, Churchtown, co. Dublin; Miss Anna Power, La Touche Place, Greystones, co. Wicklow; and Miss Mary Mulvey, Main Street, Rathcormac, Fermoy, co. Cork.

The House Committee's report, which was approved, recommended that a grant of £25 should be given to the Students' Association and £5 to the Camogie Club. On the recommendation of the Law Committee it was agreed

that a circular should go out forthwith to all Licentiates about the strict observance of D.D.A. and Poisons regulations.

THE REGISTRAR reported that only one candidate entered for the Registered Druggist examination and had failed. There was only a single entry for the coming Assistants' examination. The examiners to the Pre-Registration examination reported that fifteen of the twenty candidates who presented themselves in physics passed, and nine in chemistry. Of twelve candidates who sat for the First Professional (Supplemental) examinations nine passed. Arising out of a discussion on the Assistants' examination it was mentioned that in several instances recently students who passed Part I of the Licence examination were assuming that they had the right to cover a shop in the same way as a Qualified Assistant. MR. POWER said he had seen students who passed Part I of the Licence examination putting letters after their names. Some of the older chemists who had no idea of the position with regard to the Part I and Part II examinations were being misled in that matter. It was agreed that it should be made clear that the passing of Part I of the Licence examination gave no legal qualification similar to that of the Assistants' examination.

At question time MR. O'SHEA urged that the red book of Regulations and Acts should be brought up to date and reprinted. THE PRESIDENT said the matter would be gone into.

At a meeting of the Benevolent Fund Committee held at the close of the Council Meeting a number of grants were passed for payment.

AMYLOBARBITONE to Detect Brain Disease

By L. R. C. HAWARD, D.Psy. (Leyden), M.A., B.Sc., A.B.Ps.S., A.M.Inst.E.

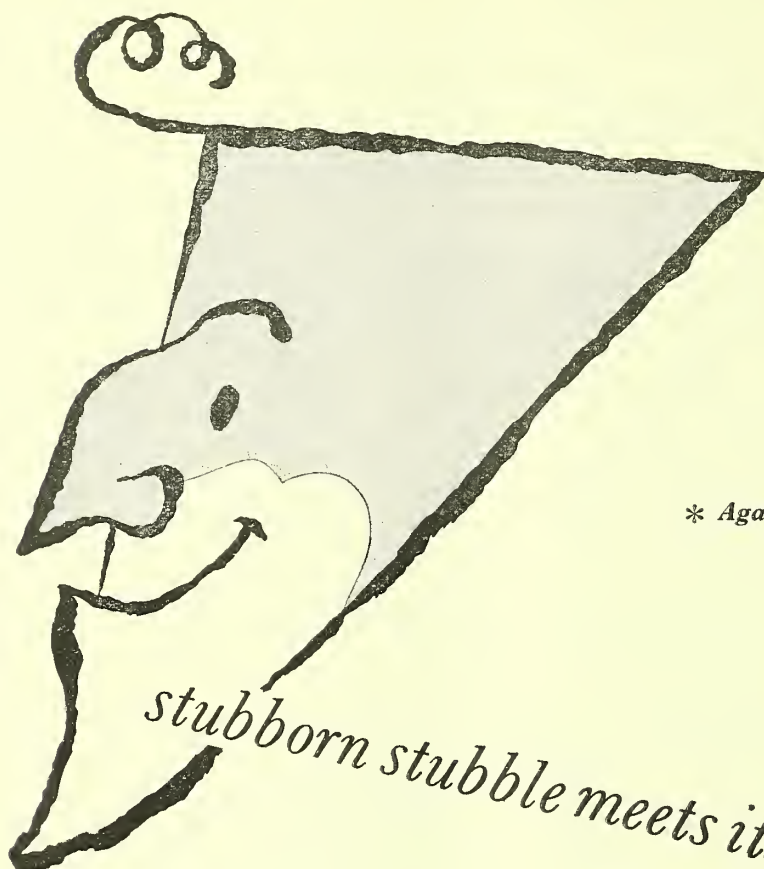
THE use of sodium amylobarbitone as a diagnostic test for organic conditions of the brain is changing the shape of cerebral diagnosis. A group of doctors of the Mount Sinai Hospital, New York, are responsible for the introduction into diagnostic medicine of this drug which is well established in other medical spheres, and its value as a reliable indicator of cerebral damage has been confirmed in a wide range and variety of cases.

The new use for the drug has arisen from careful observation and recording of seemingly irrelevant reactions during routine medication. The Mount Sinai research group had previously noted that when sodium amylobarbitone had been used in routine intravenous administration on patients recovering from various pathological conditions of the brain a number of former symptoms indicative of cerebral damage reappeared, even if they had long since disappeared from the clinical picture. The symptoms included denial of illness—a common symptom in cases of tumour in the front part of the brain, and disorientation for time, place and person (the patient being unable to state who he was, the month and year, or the names of places with which he was familiar). In many cases the drug evoked those reactions even when the symptoms had not appeared during the active period of the disease.

During the research period prior to the general acceptance of the drug for diagnostic purposes, 138 patients were studied. They all showed clinical, roentgenographic, or anatomical evidence of brain disease, including tumours, diseases of the nervous system, toxic and convulsive states, and post-frontal leucotomy. Immediately before and during the intravenous administration of the sodium amylobarbitone each patient was examined by a psychologist with a standard set of questions relating to orientation of time, place and person, and also awareness of illness. The drug was given in the form of a solution of a strength of 50 gm. per litre of distilled water, and was administered through a venipuncture at a rate of 0.05 gm. per minute. No fixed dosage was given, and the patient was asked to count backwards from 100 to 1 during the administration. The injection was continued until the patient showed

visual disturbances, drowsiness, slurred speech in answers to questions, and errors in counting. The quantities given ranged from 0.1 gm. to 0.5 gm., although three patients required 0.8 gm. before the equivalent level of mental disorganisation was reached. The use of an equivalent "physiological dose" rather than an absolute dose of so many gm. was necessitated by the fact that the degree of behavioural interference effected by the drug is a function not of the quantity administered but of the quantity which is taken up by the blood and enters into body metabolism. There is an appreciable range of metabolic rates in different individuals. As soon as the physiological effects of the drug were clear, the questions were repeated. When an error occurred in the answer the question was repeated immediately, and again several times later. By a scoring method the incidence of erroneous answers could be converted to a numerical score.

Patterns of disorientation produced by the drug were obtained in an extremely high percentage of all brain disease cases. Patients who did not produce the pattern were epileptics with no cerebral focus (*C. & D.*, August 29, p. 211) or patients having cerebrovascular conditions leading to what the lay man calls a stroke. To prove that the symptoms evoked by the drug were genuinely latent and not merely a direct result of the medication, many patients with no brain pathology and normal individuals received a similar treatment. In no case did the drug produce any of the symptoms. Those results indicate that the sodium amylobarbitone diagnostic procedure is of value in differentiating patients with certain types of brain disease from those whose symptoms are due to other causes. The method is of particular importance in cases of deep-seated or diffuse brain tumours, especially when the presence of such a condition is not suspected, and the patient has been recommended for some treatment such as electro-shock therapy. In those cases any type of brain damage is a contra-indication, and if not detected may well prove fatal. The drug is easily available and relatively inexpensive. The diagnostic procedure is of short duration and much less unpleasant than standard routines.



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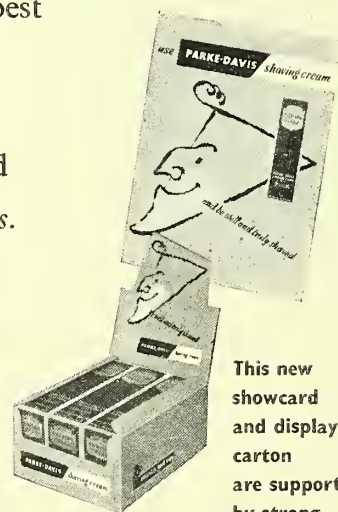
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A Challenge to the Chemical Industry

THAT it is peculiarly up to the chemical industry to find the means of "massive application" of atomic energy was the challenging note on which Sir Oliver Franks ended his address as principal guest at the annual dinner of the Association of British Chemical Manufacturers on October 14 (p. 417). His argument was that Britain's modern industrial history had been marked by periods of advance in productivity and real income, interspersed with a long period in which both stood still. The differences were not to be explained in terms of management and labour, or of capital investment. He ascribed the advances to the massive application of, in their turn, the basic discoveries of steam power and steel, of electricity, the internal combustion engine, and chemistry. The "static" periods were periods of improvement merely, not of basic discovery. Britain's urgent need at the present time, to lift her from the economic stringencies brought about by the war, was for another such "massive application" of a discovery: in this case atomic energy. "Our future in this island depends on our wits and our guts," he said. "It is up to you to find something pretty good in the bag."

Common Sense about the Health Service

CRITICISM on the National Health Service is of many kinds, but comment that is at once broad, unbiased and informed, from an ordinary member of the public, is so rare as to merit special study. Comment of that kind, written "mainly for women," was forthcoming in an article published recently in the *Manchester Guardian* and headed with modest accuracy "The Inquiring Patient."

The author, Eva Crossley (presumably Mrs.), had recently been an in-patient in one of the largest hospitals—"a focal point in the county's health service." During convalescence she read the British Medical Association's report on general practitioners in the Health Service. It prompted her to make inquiries, the answers to which supplemented her own observations. Mrs. Crossley found little evidence to support the view that doctors are tending to refer to hospital cases demanding more thought than the average. Doctors are indeed suffering, she confirmed, from patients with a "surgery mentality" analogous to "queue mentality." They have therefore to cope with the malingerer as well as with the genuine patient. But even without such abuse doctors' surgeries would be overfull, because of "something else that has emerged from the Health

Service . . . something which seems either to have been overlooked or deliberately soft-pedalled" whilst emphasis on exploitation has been rather overdone. That "something" has been a more widespread ill-health, especially among women, than was suspected before N.H.S. came in—"much as evacuation in 1939 revealed the extent of slum conditions." Mrs. Crossley supports her inference with facts, but they may be left for closer study by those wishing to pursue the matter.

We are more concerned at the moment with the author's observations on two matters connected with finance. For they corroborate arguments many pharmacists have put forward but which have been ignored or disregarded in high places. "Is there a danger of N.H.S. becoming a sick patient because of a surfeit of administrative desks and forms?" she asks. Certainly there is a palpable lack of balance in a situation in which administrative costs grow while hospital beds lie idle not—alas—for lack of patients, of which the waiting list grows, but for lack of nurses and hospital workers. In those circumstances, for the Government to investigate only the costs of medicaments as the prime cause of over-high expenditure on the Service savours of throwing dust in the public's eyes.

Finally, we applaud the author's common-sense attitude to the prevention of abuse of the Service by patients who are guilty of unnecessary recourse to the doctor's surgery. Especially is her judgment sound if she is unaware, as she well may be, that as a deterrent the shilling levy payable at the chemist's counter has proved a complete failure—except for a relatively short period after its introduction. "What about paying a shilling at the surgery to have the doctor's opinion?" is her question.

As a means of keeping malingerers out of the surgery queue that, surely, stands a much better chance of being successful than a method which only calls for the shilling after the surgery visit, and allows the option not to spend the shilling if it does not appear to the patient to offer any special advantage on top of the medical advice.

A Tall Order, and Britain Takes It

THE Government of the Union of Burma, looking to the day when it can achieve something comparable to Britain's National Health Service, has made the dramatic move of placing an order for the creation of virtually an entire drug industry. Having nothing, or practically nothing, of an indigenous industry on which to build, it has signed a contract with a British company (see p. 409) under which buildings, plant, equipment, "know-how" and seven years' management—in all a contract involving millions of pounds sterling—will be provided and local personnel trained. The project is an ambitious one, a parallel with which it would be hard to find. Its outcome will be eventually to make Burma as independent of the whole world economically, in the field of manufactured medical supplies, as she has been politically independent of Britain since 1948.

Some shaking of heads, especially in the Cotton County, where the order has been placed, may be expected over the wisdom of exporting the machinery and techniques of manufacture rather than the manufactured goods themselves. In fact, no such choice has ever presented itself. For one thing, in a country of 17,000,000 inhabitants, poverty has prevented more

than a tiny minority from buying the products of western pharmaceutical industries (and those not necessarily from Britain), whereas the Government of U. Nu aims at catering for the health needs of the whole Burmese community. For another, there was no lack of willingness in Germany and other countries to which the Burmese purchasing mission also went — possibly among other British manufacturers too—to meet the desires of the Burmese Government.

The way to look at the matter, therefore, is to congratulate the successful British company on having secured a contract that will bring considerable wealth to Britain, much of which might not, and most of which

would not in any circumstances, have come to this country. Britons may feel pleased that the Burmese, despite their secession from the Commonwealth, nevertheless continue to feel a friendliness towards this country such as may have helped to influence the placing of the contract; pleased, too, that personnel who receive their basic training from English instructors may later look to this country for their further industrial education.

Guarantees are understood to have been fully secured that the new industry shall not undermine British markets in other eastern countries by exporting to them.

Onward from Galen

A CURRENT CAUSERIE

At an international paediatric congress in Havana on October 16, Dr. P. Gyorgy, Philadelphia, U.S.A., mentioned the possibility of radical changes having to be considered in infant feeding as a result of the discovery of a new growth factor that he described. The new "specific factor" was present in human and bovine milk, but human milk was forty times as active as the other. The great improvements in infant feeding by cow's milk preparations, he said, had led some physicians to question what advantages were obtained by babies fed on human milk. Now, however, for the first time there appeared to be a scientific explanation for the general superiority of breast-fed infants over those bottle-fed. The nature of the new factor was unknown, but differed from all known vitamins and growth factors.

★

THE prescribed minimum height for window blinds in many areas remains at 8 ft., at which it was originally established under the Town Police Clauses Act, passed at a time when top hats were in vogue. The complaint that an 8-ft. clearance does not give adequate protection from the sun in many newly designed windows, which are low, has been submitted to the Home Office by the National Association of Window Blind Manufacturers and the National Association of Shopfitters. The organisations claim, too, that it is anomalous that the prescribed minimum height of shop blinds should vary from place to place. For a time until recently little was being done to enforce the provisions. In consequence many shopfitters were installing blinds that contravened the regulations. The matter needed regularising and the Home Office appears inclined to favour a uniform minimum height of 7 ft.—the minimum height observed in practice in, amongst other places, the County of London and Croydon. "If that is a sufficient minimum so far as the interests of the general public are concerned in those busy shopping areas, it is hard to see why a greater clearance should be required elsewhere," is the Home Office view. The law committee of the Association of Municipal Corporations has received a note setting out the latest views of the Home Office on the matter. The suggestion is made that there is no call for a Government Bill on the subject, which might, however, be the subject of a Private Member's Bill, or there might "at some time or other" be an opportunity to deal with it in a miscellaneous Bill.

★

A REPORT drawn up for the World Health Organisation by Mr. J. M. Barnes (director of the toxicology research unit, Medical Research Council), and recently published, clears from charges of involving hazardous potentialities the compounds used as pesticides, always provided that proper precautions are taken in their use. No evidence has yet been found that the ingestion of small quantities of pesticide materials over many years has produced undesir-

able reactions. Nor was any of the materials used at present so poisonous that its use was impracticable. Nevertheless it remains necessary, in the opinion of the author of the report, to ensure by "education and instruction" that the materials are used properly. Further research on the possible long-term effect of the compounds on exposed workers is essential.

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THE setting-up of a company specially to market to grocers products usually supplied through chemists is a development not to be overlooked. It stems from a belief, attributed to the Unilever Group, that sales of tooth-pastes and similar products can be greatly increased through the grocery trade. But salesmen who do very well in a pharmacy are found to be often less successful in a grocer's shop. Hence the new organisation: Campbell, James & Co., Ltd., Unilever House, London, E.C.4. At first four toilet preparations (Pepsodent and Mentasol tooth-pastes, Icilma shampoo and Vinolia toilet soap) are being dealt with by the new company. Commenting on the development our contemporary the *Grocer* states: "It is the same idea which, in America, is diverting nylon stockings and magazines into the grocers' shops. . . . Everything, or nearly everything, that can possibly be justified in the grocer's shop, is pushed there. . . . There may be romantic types in the trade who regret these trends, who feel that it is their 'body but not their soul' that is wanted. But for the adaptable businessman all this offers new and greater opportunities. . . . It is the grocery trade which will increasingly determine the pattern of distribution."

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THOUGH it does not affect chemists at present (hardware, furniture and tea are mentioned as the goods so far implicated) the revival of a pre-war practice of offering favoured terms to groups of customers (for example, civil servants), is an unprepossessing aspect of the buyers'-market conditions that increasingly prevail in Britain. No doubt those who are against organised price maintenance can find arguments in favour of the practice, but chemists in common with the majority of fair-dealing traders will see in it a threat to confidence and an inroad into straightforward retailing. To step out along that road is to set foot on a slippery slope that may entail an accelerated "progress" to complete chaos.

INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

VELAMEN A.B.
SOPINAL
PILUSSA for superfluous hair
LEBEC ovens

SAFEGUARDING HIRE-PURCHASE

Insurance facilities available to hirers may influence retailers' decision whether to go in for the hire-purchase type of business

BY FRANK GANT

CHEMISTS who extend hire-purchase facilities to their customers, or who consider doing so, will be interested in an insurance scheme designed to safeguard the hire-purchase repayments of people who are unable to keep them up during sickness or unemployment. The vast growth of hire purchase in the United States has encouraged shopkeepers to insure their customers against defaulting in their repayments. The problem is not so acute in this country, where the number of defaulters is about one-half of 1 per cent. Nevertheless, hire-purchase insurance is gaining in popularity in Great Britain.

Firms selling furniture and motor cars make increasing use of hire-purchase insurance, but it is perhaps less well known that the insurance can be adapted to the needs of most other retailers, including chemists who sell cameras and other expensive items of equipment on hire purchase to their customers. Most hire-purchase trading is, of course, financed by companies specialising in the business, though some retailers carry the risk themselves. Whichever method is used, hire-purchase insurance can help the chemist to extend his trade.

There are still a lot of people who, in spite of the tremendous growth in hire purchase, hesitate to buy on extended credit in case some misfortune should befall them and they find themselves unable to meet their repayments. They are for the most part thrifty people, and they make worth-while customers. Retailers who can help them to overcome their reluctance to buy articles on hire purchase by implementing an insurance scheme can build up goodwill and increase turnover. Hire-purchase insurance, furthermore, does minimise the risk of articles having to be reclaimed from the hirer because of arrears in repayments, an often unpleasant task resulting in a loss of goodwill through no fault of the trader.

This type of insurance is really a variation of the well-known personal accident policy, a popular form of insurance cover. The retailer who adopts it makes his arrangements with an insurance company and is issued with a master policy to cover his hire-purchase transactions. He is also given a number of proposal forms for issue to his customers.

There is nothing very complicated about the proposal form or, for that matter, about the whole scheme. The customer fills in details as to age and occupation, together with facts concerning the length of the hire-purchase agreement, the make and registered number of the article being purchased, the total amount outstanding, including the hiring charges and the amount of the monthly repayments. If the agreement is being arranged through a finance company, those details have to be added.

The retailer sends the completed form to the insurance company and the necessary adjustment is made in the master policy, a certificate being issued for the purpose. The trader is expected to make his own discreet inquiries as to the financial standing of the customer, but that is something he would do in any case before selling on hire purchase.

The age limits for hire-purchase insurance are usually between sixteen and sixty. People engaged in certain hazardous occupations are excluded from this type of insurance cover, and claims arising from diseases or infirmities that existed at the commencement of the insurance are also excluded. Premium rates vary with the nature of the article being bought on hire purchase, but in any case are not heavy, ranging from fivepence to eightpence in the

£ of the amount outstanding for the period of the agreement. The collection of the premiums is the responsibility of the retailer. He can pass them on to his customers if he so desires, though there are obvious advantages to be derived from advertising a free insurance scheme.

Most of the leading insurance offices transacting personal accident insurance in this country will issue hire-purchase insurance policies. One firm that specialises in the business offers a 20 per cent. discount on the premiums which the retailer introduces, together with free publicity material to hand out to customers.

From the chemist's point of view, the scheme is attractive and well worth investigating. For example, photography enthusiasts are often members of camera clubs and can be relied to pass on the good news that a retailer arranges hire-purchase insurance facilities for his customers. Increased goodwill and more important increased turnover may well be the result. The clerical work involved with each transaction is not very onerous and is amply repaid if the hire-purchase insurance scheme brings new customers into the shop.

RECENT RESEARCH

PHENOL FROM COCONUT SHELLS

WORKERS at the College of Liberal Arts and College of Pharmacy of the Philippine Women's University, B.A. Gamboa and L. Oliveros-Belardo (*Journal of the Philippine Pharmaceutical Association*, 1953, 40, 251), find in preliminary experiments that phenol can be produced from the destructive distillation of local coconut shells, at present a waste product. 1.84 per cent. of the oily distillate was found to be phenol, but the total yield could be raised, it was thought, with better distillation conditions.

SPRAY PARTICLE MEASURER

AN electronic machine has been devised by Wheeler and Trickett of the Post Office Engineering Station and National Institute of Agricultural Engineering (*Electronic Engineering*, 1953, 25, 424-26) for the automatic assessment of the distribution of sizes of spray particles. A phototelegraph transmitter scans spot patterns produced by a spray, and a discriminating device allows a record of ten size groups to be made simultaneously. The machine has applications in assessing the size distribution of airborne dust particles, blood corpuscles, and sprays for agriculture. A graph is given showing close correlation in results obtained by the machine in half an hour, and those obtained by conventional counting methods in about two days.

METALDEHYDE SUSPENSIONS AGAINST SLUGS

INVESTIGATIONS undertaken by Moreton of the National Agricultural Advisory Service, Wye, Kent (*Plant Pathology*, 1953, 2, 49) showed that suspensions of powdered commercial metaldehyde in water were effective against slugs. The rate of application of the compound depended on the humidity of the atmosphere at the time of application, and under humid weather conditions, which were unfavourable to the desiccation of immobilised slugs, the rate of application might be between 2 to 5 lb. per acre. Under laboratory conditions a 5 lb. per acre deposit retained its full effectiveness for five but not eight days, while a deposit at a 1-lb. rate was found to have lost its effectiveness after five days. No phytotoxic effects were observed on sprayed lettuce, clover or brussel sprouts. The method was promising for seed beds and more valuable crops such as lettuce, strawberry and flowers under cloches and Dutch lights.

ESSENTIALS OF TREATMENT

A C. & D. "post graduate" course for pharmacists

DEALING SPECIALLY WITH THE PHYSIOLOGICAL AND PHARMACOLOGICAL PRINCIPLES INVOLVED

BY A MEDICAL MAN

20. DISEASES OF THE CARDIOVASCULAR SYSTEM, I

DURING the past two or three decades, many advances have been made in the treatment of acute infections and allied conditions. The advances have led to a reduction in mortality rates and an increased expectancy of life. Those factors alone help to account for some of the increased incidence of cardiovascular disease, and there is no doubt that if remedies for cardiovascular disease could be evolved, we could expect a further increased expectancy of life. Defects in the cardiovascular system are one of the main causes of death in the elderly, and many of them are due to so-called "wear and tear." Before considering individual diseases it is necessary to understand not only the physiology of the cardiovascular system but also the pathology of some of the conditions concerned.

Function of the Heart

In the first place it is wise to consider the function of the heart and the vascular system. The main purpose of blood is to convey oxygen and food products to the various tissues of the body and to carry away breakdown products therefrom to be excreted, either by the kidney or lungs, or to be detoxicated in the liver. In terms of plumbing, one may consider the blood vessels to be the pipes of the body and continuing the comparison one may consider the heart as a mechanical pump; in actual fact the heart is really a pair of pumps. The right side of the heart receives the deoxygenated blood from the venous system into the right auricle, whence it is transferred to the right ventricle and pumped into the arteries supplying the lungs. From there it is returned in an oxygenated state via the pulmonary artery to the left auricle, whence it goes to the left ventricle. The left ventricle pumps the blood into the aorta, whence it goes to the various parts of the body and returns ultimately to the right auricle. For anatomical purposes the vascular system is described as consisting of arteries, veins and capillaries, but it must be clearly understood that those three types of vessels form one continuous and closed circuit. The arteries contain more muscle in their structure than the veins, while the capillaries in some places are merely one cell in thickness. The muscle is the so-called plain unstriated or involuntary muscle, and the nervous supply is involuntary, consisting of sympathetic and parasympathetic nerves. Stimulation of the sympathetic nerves causes constriction of the arteries, while stimulation of the parasympathetic has the opposite effect. The average blood volume of a human is about eight pints. Stimulation of the sympathetic nerves causes the arterial muscles to contract and in so doing reduces the total volume of the closed circuit, and since the quantity of blood contained therein is not reduced, the blood pressure rises. Paralysis of the sympathetic nervous system or stimulations of the parasympathetic has the opposite effect.

The heart, likewise, is supplied by the sympathetic and the parasympathetic nervous systems, stimulation of the sympathetic increasing the rate, and of the parasympathetic having the reverse effect. It has already been stated that the function of the blood is to convey oxygen and food to the various tissues of the body and it is logical, therefore, that a measure of its efficiency should be the manner in which that is accomplished. If anaemia is present the

diminished red-blood cells have to pay more visits to the tissues to provide the normal oxygen supply to the tissues, and that feat can only be accomplished by a more rapid movement of blood, i.e., by an increased heart rate, which is manifested in an increased pulse rate. To push the blood round the body the heart must contract sufficiently forcibly, and to allow the passage of fluid from capillaries to the tissues there must be a certain minimum hydrostatic pressure in the vascular system. That pressure, known as the diastolic pressure, is expressed in cubic mm. of mercury and represents the pressure exerted when the heart is fully released. The blood pressure exerted when the heart is in full contraction is known as the systolic and blood pressure is normally expressed in terms of the two, e.g., x/y mm., where x =systolic pressure and y =diastolic pressure. If the diastolic pressure is high, the heart has to exert a more forceful beat to raise the systolic to a height sufficient to overcome the diastolic and push the blood round the body. That more forceful beat requires greater exertion on the part of the heart in the same way as does an increased number of beats per minute. Backflow into and within the chambers of the heart is prevented by valves and if these are damaged or defective their efficiency is reduced. Each time the heart contracts under such conditions, there is a certain backflow of blood, but the body tissues still demand the same oxygen and food supply. Consequently the heart has to contract more forcibly and more frequently to counterbalance the amount of blood which will flow backwards. Consideration of the above factors leads one to understand that the efficiency of the heart can be compared closely with the efficiency of a pump. Unfortunately, however, the heart is a living organ and, like all living structures, can become fatigued. When that occurs it becomes less efficient and all too frequently the disabilities are increased by dilatation and a deficient supply of the vital necessities to its own muscle. In other words, cardiac failure supervenes. Consideration will be given to this problem later. The efficiency of the heart is also dependent upon the venous return of blood because, if there is a deficient intake of blood, the output must be deficient. Summarising, it can be said that cardiac insufficiency due to physical causes can be influenced by factors both within and outside the heart.

Diseases of the Vascular System

What are the usual diseases associated with the vascular system? For the purposes of this series infective conditions such as septicæmia and bacteræmia can be disregarded, because they are largely of an acute and curable nature. Thrombophlebitis is another condition that is usually acute, but it can leave permanent defects. Two main conditions, arteriosclerosis and atheroma exist to a greater or less extent in all persons over the age of about thirty, though when mild they occasion no real harm or disability to the patient. They are progressive, however, and for that reason it is not surprising that arteriosclerosis and atheroma have their greatest incidence in the middle-aged and elderly, because it is not until then that they have advanced sufficiently to cause signs and symptoms in the patient. In arteriosclerosis there is a so-called generalised

hardening of the arteries and that is accompanied by a partial calcification of the walls. The arteries thus become less expandable and the lumen narrows. In some cases those processes proceed to such a degree that the blood supply to certain parts of the body becomes insufficient. A good example is provided by intermittent claudication, a condition that will be discussed later. In atheroma, plaques or patches of atheromatous tissue appear on the lining membranes of the arteries. When sufficiently marked, both atheroma and arteriosclerosis can and do cause interference with the blood supply to various parts of the body, and when vital organs such as the brain and the heart are thus affected the consequences are serious. The chronic conditions associated with the vascular system have one feature in common, that they interfere with the free flow of blood.

From what has been said, it can be realised that the cardiovascular system is one in which chronic and progressive disabilities provide the main causes of disease. Provided that no remedies are discovered to counteract those disabilities and research continues to supply remedies

for acute diseases, we can expect an increasing incidence of cardiovascular disease, because more people are living sufficiently long for arteriosclerosis and atheroma to have a pathological effect. Surgery has a part to play, but close study of the conditions suggests that the real cures are more likely to be provided by medicine than by surgical measures.

Cardiovascular diseases offer a real challenge to the physiologist and pharmacologist, and there is no doubt that success on their part will offer an even greater challenge to the sociologist. Any further substantial increase in expectancy of life can only be provided by drugs capable of reducing the normal wear-and-tear of the cardiovascular system. Space does not allow for further discussion of individual conditions in this article but they will be discussed in detail in subsequent articles, because several new remedies have recently been introduced and it would seem that definite progress has been made. In fine, the prognosis for sufferers from cardiovascular disease is not now so bleak as formerly.

Equipment for the DISPLAY WINDOW

(Concluded from THE CHEMIST AND DRUGGIST, October 17, p. 404)

Slotted Stands

There is one type of slotted display stand designed to carry glass shelves without the aid of brackets, screws, clips, or any other kind of support. It consists of tubular metal stems having slots at $1\frac{1}{2}$ -in. intervals and in staggered formation of a suitable size to permit the insertion of shelves of toughened glass. The stands have weighted bases, are made in four different sizes: 2 ft. 5 in., 2 ft. 9 in., 3 ft. 5 in., and 4 ft. 5 in., in a choice of three different finishes: chromium, copper, or bronze. They can be used in pairs for the support of rectangular shelves or individually to accommodate circular, semi-circular, or quadrant-shaped shelves.

Somewhat similar in appearance, though constructed on different principles, is another slotted stand made up of four different component parts, comprising (1) a heavily-weighted cast-iron base with a rubber under-surface; (2) cylindrical sections that fit into one another to form a column; (3) a tie-rod; and (4) a cylindrical cap. On this stand each shelf is held by a rubber retainer, which is slipped into position over the glass before the shelf is

fitted into the slot. These stands are supplied in two heights: 3 ft. 6 in. to take seven shelves, or 2 ft. 7 in. to take six shelves.

Another tubular stand designed to carry a number of shelves is assembled in cylindrical segments on an inner tube. Alternate segments are fitted with brackets which move at a touch to any position around the stem. The assembly is held in position by a top clamping sleeve. Ordinary glass shelves (clear or opaque), in suitable thicknesses, can be used and larger groups can be formed by linking two stands in pairs by means of long oval or rectangular shelves.

Corner Fittings

There is a versatile, widely applicable, and inconspicuous device which makes it possible to bring shelves of rectangular shape into use in the front or back corners of windows. The angle of the glass shelf has a small groove and recess which drops over a rivet head in the bracket. The shelf thus falls into its correct position without difficulty, and is then levelled by a thumb-screw adjustment against a flex-

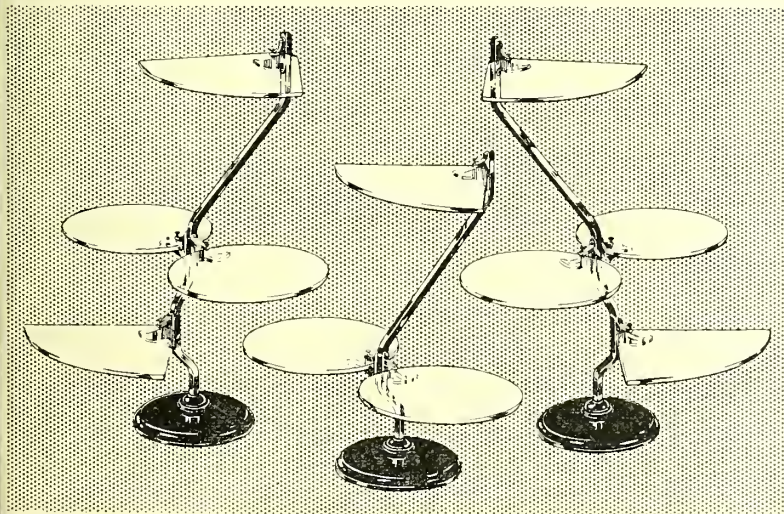
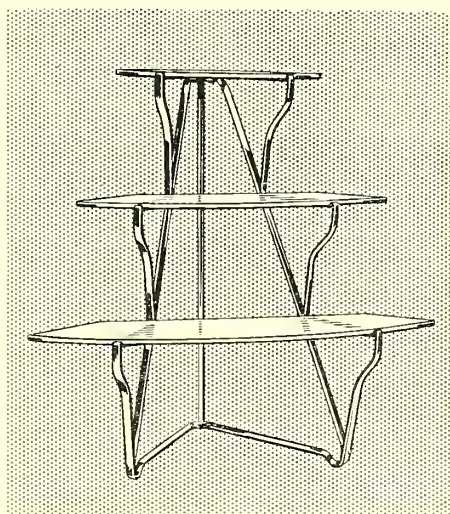
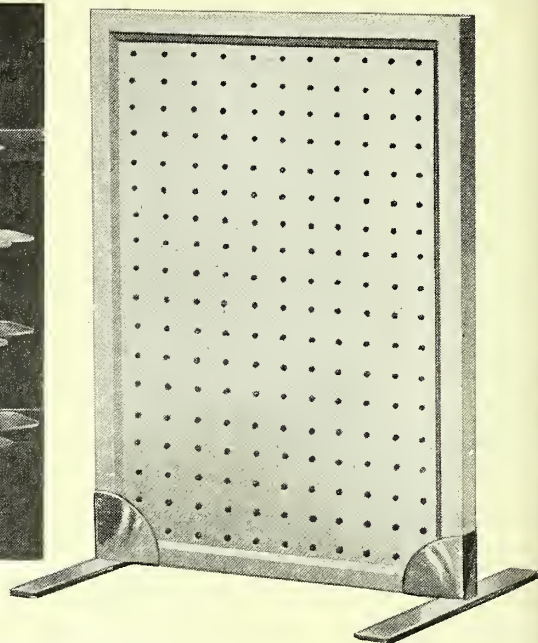
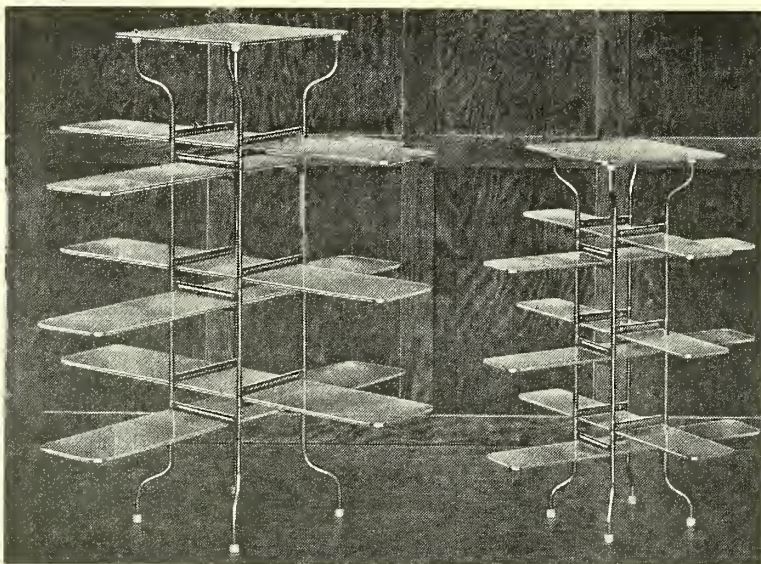


Fig. 15 (left). These stands, well suited to cosmetic display, carry either circular or quadrant-shaped glass shelves, each of which has a little groove and recess engaging with the bracket under a spring-loaded screw.

Fig. 16 (right). These stands for supporting glass shelves in three tiers can be collapsed when not in use.



(Both by A. B. & G. G. Houghton).



Figs. 17 and 18, 17 (left): A useful type of tiered stand designed to carry six shelves crossing each other at right-angles and having a square shelf at the top. (A. B. & G. G. Houghton.) 18.: A framed panel of perforated hardboard with clip-on feet. Pegs, brackets, clips, rings and other attachments can be obtained for plugging into the holes in the panel for supporting various kinds of merchandise. (Fredk. Sage (Display Fittings), Ltd.).

ible spring. The bracket is fixed in position against the inner surface of the window frame by two screws and the quadrant-shaped shelf, though easily released for cleaning, is firmly held without tension and with no risk of either slipping or sagging.

Quadrant-shaped or circular shelves, with a similar small groove and recess engaging under a spring-loaded screw, can also be used with advantage on a display stand with a curved stem, so shaped that no shelf overlaps another. These stands look more dainty and informal than the ordinary tiered stand, and are well suited for the display of cosmetics and perfumery. They are made in heights 1 ft. 8 in. and 1 ft. 4 in. with a maximum horizontal dimension of 1 ft. 5 in.

The attractions as well as the capacity of some windows can be increased by the use of tiered corner stands. One

serviceable metal variety, with either a bronze or chromium finish, is 1 ft. 6 in. high and measures only 12 in. from back to front. It carries three arc-shaped shelves measuring, respectively, 1 ft. 7 in. x 4½ in., 1 ft. 3 in. x 4½ in., and 10 x 4 in. It has the rare quality of being collapsible, and can thus be packed flat when not in use—a distinct advantage to the chemist with limited space for the accommodation of display equipment not needed in the window. One of the most convenient positions for this purpose is the space beneath the base of the window.

For the construction of screens, panels, pedestals, or other devices that can be used as supports for the display of miscellaneous articles, a perforated hardboard is available for use with metal brackets. Known as "peg-board," this versatile material can also be employed as a background to "set off" the merchandise. It is supplied by one firm in standard sheets of neutral tone, size 8 x 4 ft. at 1s. a sq. ft., or, cut to any size required, at 1s. 6d. a sq. ft., and for an additional charge of 1s. 6d. a sq. ft. it can be obtained with a sprayed finish of any desired colour. The two prongs of the V-shaped metal brackets, which have a brown enamel finish, plug into two holes in the board, and in the closed end of the "V" is a threaded hole into which various display attachments can be screwed. Plug-in brackets can also be obtained to take glass shelves 4 or 6 in. square, or 6 in. wide, and of any suitable length.

Four-sided pillars can be obtained in the same material, for use with plug-in brackets or shelf clips. Also available in this material are display panels in wood frames, or unframed on two wood feet, or in triptych form (three panels hinged together). For use with these panels there are various attachments for the display of bottles.

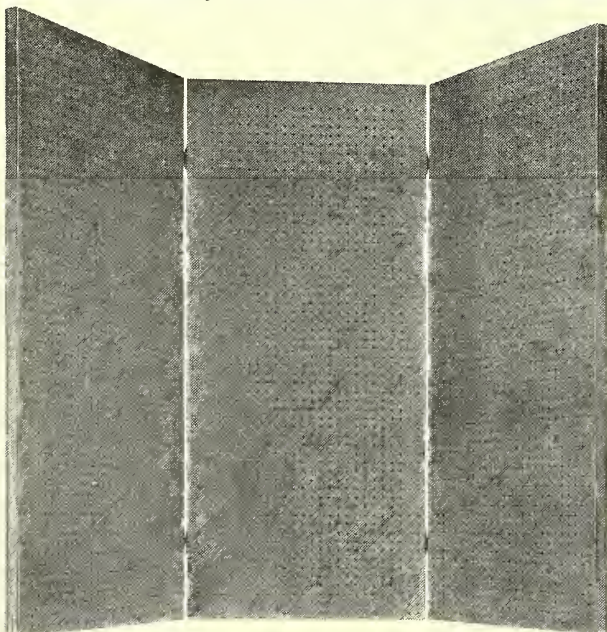


Fig. 19. A hinged screen of perforated board which serves the same purpose as the panel shown in Fig. 16. (Fredk. Sage (Display Fittings), Ltd.).

POLYGALA VIRGINICA

*M*AIDEN of the icy North
Do you hear the trapper's tread,
As he hunts for fox and beaver
Sets his traps
For furs and pelts?
While he waits,
He'll dig and grub
For your roots
O frozen Maiden,
Maiden of the North-west Frontier.

H.A.B.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, OCTOBER 21: Business in PHARMACEUTICAL and FINE CHEMICALS and in the CRUDE DRUGS market was generally acknowledged to have been brisker during the week. British chemical manufacturers are confident that the improved demand will be sustained in the domestic field, though future demands on overseas account remain enigmatical. ASPIRIN is one of the few commodities that have been in considerably better demand for export recently.

It is thought in some quarters that the continuing upward trend in world demand for SULPHUR may lead to another shortage; whilst the long-term position is regarded as satisfactory, it has been pointed out that, before the extra projects are fully working, the demand for raw sulphur may well outstrip supplies again. Any parcels of IPECACUANHA offered on the spot were quickly taken up. Business was done in Nicaraguan at 60s. and in Colombian at 55s. per lb. PAPAIN and CLOVES were two commodities that failed to follow the downward trend in crude drugs during 1952. The higher prices operating then stimulated production and now, as supplies of both have increased, it appears to be their turn to show a decline. Spot values of papain were down by 2s. per lb., and Zanzibar cloves by 1s. 6d. on the week's trading. In AROMATIC SEEDS, Indian FENNEL eased by 5s. per cwt. as a result of fresh arrivals, but Moroccan FENUGREEK was firm. Whilst supplies of imported HONEY are adequate there has been a severe fall in the size of the English crop this year. Demand during the past few weeks for Australian material has been better than was expected in view of the de-rating of sugar.

Olive Oil

French shipment prices for OLIVE OIL have been maintained at previous levels, although Spanish oil is offered on more advantageous terms. Contrary to earlier predictions CASTOR OIL prices continue to decline with the present spot value down by £25 per ton compared with that ruling about two months ago. In ESSENTIAL OILS, PETITGRAIN on the spot is firm and forward deliveries are subject to about

three months' delay. Holders of Turkish OTTO OF ROSE have raised their quotations by about 60s. per oz.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, OCTOBER 20: GLYCERIN continues to reflect the seasonal recovery in industrial operations. Lower per lb. are LYCOPodium at \$1.30 (down 10 cents); ALOIN at \$3.75 (50 cents); and PODOPHYLLIN at \$8.75 (85 cents). The price structure of VANILLA BEANS has continued to strengthen, with whole Mexicans now at \$6.25 per lb. (up 25 cents). With a 5-cent increase reported at the source, whole QUILLAIA BARK was quoted here at 24 cents per lb. (up 2 cents). SENEGA is firmer at \$2.20 per lb. (10 cents). Lower per lb. are Cape ALOES at 25 cents (down 3 cents), and Asiatic STYRAX at 68 cents (2 cents).

In ESSENTIAL OILS, higher are Dalmation SAGE at \$7.75 (up 25 cents) and SPEARMINT at \$5.60 (10 cents). PATCHOULI is lower by 10 cents at \$7.75.

Pharmaceutical Chemicals

ACETANILIDE. — 1-cwt. lots are now 2s. 9d. per lb. for crystals and 5-cwt., 2s. 8d. Powder is 1s. per lb. more.

ACETIC ACID. — B.P. Glacial is £102 for 1-ton and 115s. for 1-cwt. lots.

ADRENALINE. — Minimum rates for B.P. are from 1s. 3d. per gm. and ACID TARTRATE, B.P. 1953, from 8½d.

ANTIMONY SALTS. — Quotations for POTASSIUM TARTRATE, B.P., are 7s. 6d. per lb. for 1-10 cwt. and SODIUM TARTRATE, B.P., 13s. 3d.

AMIDOPYRIN. — In 1-cwt. lots the price is 29s. per lb.

AMYLOBARBITONE. — B.P.C. is 65s. per lb. for 1-cwt. lots and SODIUM, B.P.C., 70s., per lb.

BARBITONE. — Rates per lb. for 1-cwt. lots is 24s. The SODIUM derivative is 1s. per lb. more than the base.

BARIUM SULPHATE. — 1-cwt. lots of B.P. (x-ray) are 1s. 5d. per lb. and 5-cwt., 1s. 4d. per lb.

CREOSOTE. — B.P. quality, ex beechwood, is quoted at from 6s. 9d. to 7s. 6d. per lb.

CYCLOBARBITONE. — B.P.C. and CALCIUM DERIVATIVES in 1-cwt. lots are 75s. per lb.; small lots from 77s. 3d. to 79s. 6d. per lb.

DIPHENAN. — Prices range from 58s. to 67s. per lb., according to quantity.

ETHER. — Prices (per lb.) in Winchester are now as follows: — TECHNICAL, B.S.S., and SOLVENT, 5-cwt., 2s. 3d.; 10-cwt., 2s. 2d. ANÆSTHETIC, B.P., 5-cwt., 3s. 8d.; 10-cwt., 3s. 7d. In drums prices are 2d. per lb. less than above.

FEROUS SULPHATE. — 1-cwt. lots of B.P. crystals are 36s. 6d. and 5-cwt., 35s. 6d. per cwt.; granulated, 2s. 6d. per cwt. extra. EXSICCATED is 90s. per cwt.

FORMALDEHYDE. — B.P. solution is 34s. per cwt.

GLYCERIN. — Rates for pharmaceutically pure are as follows: —

	Under 1-cwt.	1-cwt. and under 5-cwt.	5-cwt. and under 1 ton	1 ton and under 5 tons	5 tons and under 25 tons
Minimum deliveries off contract of	—	1 cwt.	1 cwt.	5-cwt.	10 cwt.
Per cwt.	s. d.	s. d.	s. d.	s. d.	s. d.
TINS					
14-lb.	325 0	320 6	316 6	312 0	310 6
28-lb.	323 0	318 6	314 6	310 0	308 6
56-lb.	319 0	314 6	310 6	306 0	304 6
DRUMS					
1-cwt.	—	299 0	295 0	290 6	289 0
2½-cwt.	—	296 6	293 0	288 6	287 0
5-cwt.	—	—	292 6	288 0	286 6
10-cwt.	—	—	291 6	287 6	286 0

PARAFFINS. — Prices to wholesaler distributors are as follows: — *Liquid*: HEAVY, B.P., £98 17s. 6d. per ton; LIGHT, B.P., £81; light TECHNICAL WHITE, £68 10s., all in 40-45-gall. returnable loaned drums, delivered U.K. *Soft*: WHITE, medium consistency, £92 15s. per ton; WHITE, soft consistency, £90 10s., and YELLOW, £70 10s., all B.P., in non-returnable drums, delivered. *Hard*: Melting point 135/140° F., is £72 15s.; 145/150° F., £80; and 160/165° F., £100 per ton, in minimum ton lots, ex works.

SODIUM PERBORATE. — Prices (per cwt.) are 142s. 9d. in 1-cwt. kegs; 135s. 3d. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). Other strengths pro rata. The PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is 305s. 3d. per cwt.

THYMOL. — Prices (per lb.) are 16s. 9d. for 28-lb. and 16s. 3d. for 1-cwt. lots.

ZINC OXIDE. — Rates (per ton) for B.P. quality are: 2-ton lots, £111; 1-ton, £112; 5-cwt., £114; less than 3-cwt., £117.

ZINC PEROXIDE. — Price (per lb.) for 1-cwt. lots of B.P. is 5s. 3d.

ZINC SULPHATE. — B.P. in 1-cwt. lots is quoted at 1s. 2d. per lb.; 28-lb., 1s. 5d.

Solvents

ACETALDEHYDE. — The 100 per cent. is 145s. per cwt. for drum lots.

ACETATES. — Prices (per cwt.), for drum lots are as follows: — AMYL (technical), 240s. and (B.S. 552: 1950), 242s.; BUTYL (B.S. 551: 1950), 186s.; ETHYL (B.S. 553: 1950), 156s.

ACETONE. — Drum lots are from £108 per ton for technical quality.

AMYL ALCOHOL. — Technical grade is £237 per ton.

BENZENE. — Thiophene-free is 9s. 0½d. per gall. in 50-gall. barrels and pure, 6s. 0½d. per gall.

BUTYL ALCOHOL (B.S. 508: 1950). — 1-ton lots are quoted at £163 10s. per ton and drums at £166 10s. per ton.

CARBON TETRACHLORIDE, B.P. — 1-2 carboy lots are £120 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots, is £76 per ton; 1 ton and under 2 tons, £74 10s.; 2 tons and under 4 tons, £74; 4 tons and upwards, £73.

DIMETHYL ACETAL. — Drum lots are quoted at 163s. per cwt.

ISOPROPYL ALCOHOL. — Standard grade is £80 10s. per ton (5s. 7½d. per gall.) in 10-ton lots. Essence grade is from 17s. to 19s. per gall., as to quantity.

PHthalATES. — Prices (per lb.) for drum lots are as follows: — DIAMYL, 3s.; DIBUTYL, 2s. 1½d.; DI-ISO-BUTYL, 1s. 11d.; DIETHYL (normal grade), 1s. 11½d.; DIMETHYL, 1s. 8½d.

EXCHANGE RATES

ON LONDON

At the opening on Wednesday

*Alexandria	Piastres to £	97½-97½
Amsterdam	Florins to £	10.56-10.72
*Bombay	Shillings to	
	rupee	1/5½-1/6½
Brussels	Francs to £	138.95-141.05
Copenhagen	Kronor to £	19.19½-19.48½
Dutch West		
Indies	Florins to £	5.24-5.32
*Hong Kong	Shillings to \$	1/2½-1/2½
*Karachi	Shillings to	
	rupee	2/1½-2/1½
Lisbon	Escudos to £	79.90-81.10
*Montreal		
T.T.	Dollars to £	2.75½-2.75½
New York		
T.T.	Dollars to £	2.78-2.82
Oslo	Kronor to £	19.85-20.15
Paris	Francs to £	972.6-987.3
Stockholm	Kronor to £	14.37½-14.59½
*Singapore	Shillings to £	2/3½-2/4½
Zurich	Francs to £	12.15½-12.33½

*Free market rates; remainder Bank of England.

Crude Drugs

ACONITE.—Spanish napellus is 3s. 2d. per lb., duty paid, ex wharf.

AGAR.—Kobé No. 1 on the spot is 17s. per lb.

ALOES.—Prime Cape on the spot is 165s. per cwt.; shipment, 154s., c.i.f.

ANTIMONY.—English, 99.6 per cent., £237 10s.; 99 per cent., £225 per ton.

ARECA NUTS.—Quotations are about 45s. per cwt. for Ceylon material on the spot.

ASAFETIDA.—Persian block is £15 per cwt., duty paid.

BALSAMS.—Quotations (per lb.) are:—*Canada*: New-crop, 22s. 6d., spot, *Copaiba*: Soluble Para, spot, 12s. *Peru*, 9s., in bond, *Tolu* (genuine as imported), 18s. 6d., spot.

BELLADONNA.—A parcel of root testing 0.44 per cent. is offered at 1s. 6d. per lb. on the spot, duty paid; LEAVES are from 3s. per lb., as to test.

BENZON.—Sumatra block No. 1 on the spot is scarce at £32 10s. per cwt. Shipment offers are about £28 12s. 6d., c.i.f.

CARDAMOMS.—Aleppy greens for October-November shipment are about 9s. 6d. per lb., c.i.f., and 10s. for spot. No. 1 seeds are fully 14s. per lb., spot.

CHILLIES.—Mombasa are 280s. per cwt. on the spot, and 260s., c.i.f. Zanzibar are 280s. spot, and 260s., c.i.f. Sierra Leon not offering.

CLOVES.—Zanzibar on the spot are 6s. per lb.; prompt shipment, 5s., c.i.f.

CINNAMON.—Firm. Ceylon for shipment OOOO, 3s. 6d. per lb., c.i.f.; firsts, 3s. Prices nominal.

ERGOT.—Portuguese for October-November shipment is 20s. per lb., c.i.f. Spot is offered at 22s. 6d.

GENTIAN.—French natural on spot is 100s. per cwt., and 95s., c.i.f.; sliced, 115s., spot.

GINGER.—African on the spot, f.a.q., 87s. 6d. per cwt. and for shipment, 80s., c.i.f. Jamaican No. 3 is 105s., on the spot, and 97s. 6d., c.i.f., for shipment.

HONEY.—Australian, from 92s. 6d. to 102s., spot; Argentine, about 110s.; Jamaican, unchanged at 120s. to 130s., ex warehouse terms.

HYDRASTIS.—Root is 21s. per lb., landed terms.

IPECACUANHA.—Very firm. Nicaraguan for shipment is 54s. per lb., c.i.f. Columbian, 46s. to 47s. Spot cleared.

NUTMEGS.—West Indian 80's quoted at 2s. 9d. per lb. on the spot and 2s. 6d. c.i.f., for shipment.

ORANGE PEEL.—Thin-cut is 2s. 2d. per lb., duty paid.

ORRIS ROOT.—Offers of average quality Florentine are 160s. per cwt., nominal, ex-warehouse.

PAPAIN.—Lower. Spot values for East African grade one are 28s. per lb., and grade two, 25s. Ceylon white for shipment is about 28s.

PEPPER.—White Sarawak is 8s. per lb., spot, with 7s. 6d., c.i.f., quoted for afloat. Black Malabar is quoted on spot at 990s. per cwt., and for prompt shipment 830s., c.i.f. Black Sarawak, spot, 7s. per lb., afloat, 6s. 8d., c.i.f.

PODOPHYLLUM.—*Peltatum* is 336s. per cwt. on the spot.

QUASSIA.—Shipment offers are about 31s. per cwt., c.i.f.

RHUBARB. Chinese. — Spot offerings include: round Shensi at 12s. 3d. per lb.; rough round high dried, sound at from 6s. to 8s. 6d. and wormy from 3s. 6d. to 4s.

SANDARAC.—Morocco is offering on the spot at 12s. per lb.

SARSAPARILLA.—Jamaican native red is scarce on the spot with a nominal value of 2s. 9d. per lb. Forward offers at 2s. 6½d., c.i.f.

SASSAFRAS.—Bark is offered at 4s. 9d. per lb., on the spot.

SEEDS.—**ANISE.**—Business passing in Cyprian at 140s. per cwt., duty free; Turkish, 140s., duty paid (130s. in bond). **CARAWAY.**—Dutch are inclined to be a little easier. Sellers quoting 97s. 6d. per cwt., duty paid. **CELERY.**—Indian quiet and unchanged at 1s. 11d. per lb., spot London. **CORIANDER.**—Moroccan has been sold at 60s. per cwt., duty paid, and 55s. is quoted in bond, English is 75s. Shipment: Moroccan for October-November shipment has been offered at 42s. 6d., c.i.f., London. **CUMIN.**—Steady. Spot, Cyprian, 130s. per cwt.; Moroccan, 130s., duty paid (125s., in bond). Shipment: Cyprian, 120s. c.i.f. **DILL.**—Indian is firm at 85s. per cwt., spot London. **FENNEL.**—Indian has dropped to 157s. 6d. per cwt., spot London. **FENUGREEK.**—Firm. Moroccan on spot is 47s. 6d. per cwt., duty paid; Shipment, 37s. 6d. c.i.f. **MUSTARD.**—English is firm with 77s. 6d. to 87s. 6d. per cwt. now quoted for spot deliveries.

SENEGA.—Quiet. Offers of October shipment are 14s. 6d. per lb., c.i.f., and for spot material, 15s.

SENNA.—*Timnevelly* LEAVES: number 1 on the spot, 11½d. per lb.; number 2, 10d., and number 3, 8d. PODS, f.a.q., are about 10½d. per lb. on the spot and 6d., c.i.f. October-November shipment, Hand-picked range from 1s. 6d. per lb. ex wharf. *Alexandrian* PODS, manufacturing, 1s. 8d. to 2s. 3d.; hand-picked, 3s. to 4s. 6d.

SERPENTARIA.—Root is offered at 40s. per lb. on the spot.

SHELLAC.—Lower. Spot quotations are:—F.O.T.N. pure, 235s.; F.O. standard No. 1, 250s.; fine orange, 260s. to 295s. per cwt., ex-London warehouse.

SLIPPERY ELM BARK.—Selected slabs are 3s. 9d. per lb., and grinding quality, 3s. spot.

SQUILL.—Italian white on the spot is firm at 60s. per cwt. with replacements difficult.

STRAMONIUM.—Indian LEAVES are 5½d. per lb., spot, and European, 97s. 6d. per cwt.

STROPHANTHUS.—*Kombé*, 100 per cent. is about 13s. 6d. per lb., on the spot, and *Gratus*, 23s. per lb., nominal.

STYRAX.—Spot is 5s. 9d. per lb., duty paid.

TRAGACANTH.—No. 1 ribbon on the spot is £105 per cwt.; No. 2, £85; No. 3, £65.

TURMERIC.—Firm. Spot, Rajapore is 120s. per cwt.; no Madras finger available. Shipment offers of either variety are 108s. 6d., c.i.f., seller's option.

UVA URSI.—Spot offers are about 85s. per cwt.

VALERIAN.—Indian is 145s. per cwt. on the spot and from 130s. to 145s., c.i.f.

VANILLIN.—Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WAXES.—**BEEES.**—Dar-es-Salaam spot, 420s. per cwt., October shipment, 400s., c.i.f.; Sudanese and Abyssinian, 365s., c.i.f., spot, 420s. to 425s., duty paid; Benguella, 370s. c.i.f., and 425s., duty paid. **CANDELILLA.**—Spot is 635s. per cwt. **CARNAUBA.**—Prime yellow on the spot is 1,130s. per cwt.; afloat, 1,080s., c.i.f.; fatty grey is 850s. on the spot; shipment, 800s., c.i.f. **MONTAN.**—Reibek crude on the spot is 125s. per cwt. **OURICURI.**—Spot 0.5 per cent impurities, 715s. per cwt. **SPERMACE.**—Case lots are about 1s. 9d. per lb.

WITCH HAZEL.—Leaves on the spot are about 1s. 9d. per lb.

Essential and Expressed Oils

ANISE.—Spot supplies are offered at from 5s. 10½d. per lb.; forward, 5s. 7½d., c.i.f.

BAY.—W. Indian is 8s. 6d., to 9s. per lb. on the spot.

BERGAMOT.—Spot value is about 82s. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

BOIS DE ROSE.—Brazilian on the spot is 31s. and 29s. 9d., c.i.f.

CAJUPUT.—Spot supplies are 17s. 6d. per lb. Forward offers are about 14s., c.i.f.

CALAMUS.—Imported oils are offering from 75s. per lb.

CAMPHOR, WHITE.—Chinese is 2s. 9d. per lb., on the spot.

CANANGA.—Supplies to come forward are quoted at from 60s. per lb., c.i.f. Spot is from 62s. 6d. per lb.

CARAWAY.—English-distilled is offered at 45s.; imported oils are from 19s. 6d. per lb. for spot.

CARDAMOM.—Price per lb. is from 250s.

CASSIA.—Original drums are about 13s. 6d. per lb. for spot and 11s. 6d., c.i.f.

CASTOR.—In minimum 2-ton lots the price of pharmaceutical quality for prompt delivery is £161 per ton, naked, ex mill. Forward: November-December, £151.

LAVENDER.—French, 40-42 per cent. linalol on the spot is about 41s. per lb.

LEMONGRASS.—East Indian is 6s. 9d. on the spot and 6s. 4d. per lb., c.i.f.

OLIVE.—Pharmaceutical oil in drums is from 24s. 9d. to 25s. 6d. per gall. on the spot, ex warehouse. French Virgin (maximum acidity 1 per cent.) is offered for shipment at £275 and French pharmaceutical (maximum acidity 0.25 per cent.), at £270 per 1,000 kilos, c.i.f., London. Spanish virgin is offered in drums on the basis of £250 per 1,000 kilos. f.o.b., Spanish ports.

OTTO OF ROSE.—Anatolian is offered on the spot at 300s. per oz., and Bulgarian, 480s., nominal, ex warehouse.

PALMAROSA.—East Indian is from 42s. 6d. per lb., on the spot, and 35s., c.i.f. for new-crop November-December shipment. Formosan, 27s. 6d., spot.

PATCHOULI.—Penang for shipment is 50s. per lb., c.i.f., with spot offers at 57s. 6d.

PENNYROYAL.—Quotations are about 12s. per lb., duty paid.

PEPPERMINT.—*Arvensis*: Chinese is about 23s. per lb., spot and 19s. 3d., c.i.f., October shipment; Brazilian (45 per cent.), 16s. 3d., spot; forward, 13s. 6d., c.i.f. Italian "Mitcham" type oil is 49s. to 52s. 6d. per lb., as to quality; forward from 48s., c.i.f.

PETITGRAIN.—Paraguay on the spot is from 17s. 9d. per lb., and for shipment, from 16s. 7½d., c.i.f.

PIMENTO.—English-distilled berry is about 70s. per lb., and imported, 55s. Rectified leaf (imported), 25s.

PINE.—*Pumilliois* on the spot is from 16s. per lb.; *sylvestris*, 9s. Siberian (*abietis*), 10s. 6d.

ROSEMARY.—Spanish oil on the spot is about 5s. 9d. per lb., duty paid, for B.P. quality.

RUE.—Spot offers are from 12s. 6d. per lb.

SAGE.—Spanish is offered at from 9s. per lb., spot.

SANDALWOOD.—Mysore is 70s. per lb. for 7 x 25-lb. tins.

SPEARMINT.—Offers of B.P.C. quality are from 57s. 6d. per lb.

THYME.—B.P.C. is about 9s. 6d. per lb.

VETIVER.—Bourbon in original drums on the spot is about 115s. per lb.

FRUITS AND DRUG PLANTS OF JAMAICA

Observations During a Business Visit

MEMBERS of the Hendon and Edgware Branch of the Pharmaceutical Society at the first meeting of the 1953-54 session held at Edgware on October 5 under the chairmanship of Mr. A. T. Thomson heard Mr. G. R. A. Short, Ph.C., F.L.S. (a past chairman of the Branch) report on some of the drugs and other plants that he had been able to observe during a fortnight's business visit to Jamaica recently. A wide variety of plants can grow in the island, he pointed out, because of the varying climatic conditions at different levels.

Temperature Range

The temperature at sea level, for example, varies between about 71 and 88°F, whereas in the mountains the temperature range is from 50 to 65°F. A record of twelve months' sunshine is claimed for at least the lower altitudes in the island, and the rainfall at Kingston is thirty to thirty-five inches annually. One of the more important crops is that of citrus fruit which is used partly for export as fruit, and partly for extraction of the oil and juice. The orange crop is used chiefly for extraction of juice. The whole fruits, however, are exported to some extent. Like all oranges grown in the tropics they are of unpleasant appearance, but the Jamaican producers are able to improve this by artificial means. The juice-extracting process has been completely mechan-

ised during recent years. The fruit runs down a chute on to rollers provided with rows of cup-shaped depressions and is then cut in half, the halves passing on to rollers fitted with cups and corresponding projections that crush the fruit releasing the juice without too much peel oil. The peel is then treated for extraction of the oil, being first minced, and then washed with water. The water carries away the oil, which is separated by a centrifuge, dried with exsiccated sodium sulphate, filtered, and filled into cans.

The lime crop, for best-quality products, should be treated either for the extraction of the juice or extraction of the oil. To extract the oil the whole fruit should be pulped and the product distilled, so "wasting" the juice. However, in Jamaica, as in other lime growing areas, most producers attempt to recover both products, but they do not completely succeed. For the production of the best distilled lime oil it is necessary for the hot citric acid solution

(from the juice) to react with the terpenes in the natural oil. If that process is omitted the oil is more like lemon oil and lacking in the typical lime note. Similarly a full-flavoured juice is only obtained by allowing the oil to remain in contact with the juice for some time.

Mr. Short had brought back a number of plant specimens of pharmaceutical and economic interest. Among them was red native sarsaparilla. He learnt that grey sarsaparilla which used to be available was not produced now as the labour involved in making it up into the once familiar bundles was no longer considered worth while. If consumers wanted the grey variety of the drug again it could easily be produced again by adopting the time-honoured practice of rubbing the root in grey dust. The lecturer thought that the red variety now obtainable, was coloured, probably naturally, with the local bauxite earth. Sarsaparilla, like other of the drugs still produced in

Left: *Abrus* (B.P.C., 1934) (seeds of *Abrus precatorius*), Jequirity seeds, jumble or prayer beads, containing poisonous proteins. Right: Flowering twigs of logwood (*Haematoxylon campechianum* Linn.).



Jamaica is not a commercial crop. Many of the coloured people have perhaps a dozen or so plants in their smallholdings. When ready for collection the drug is dug up, washed and dried. The producers then take their parcels to the main road to await a passing lorry with a driver who will buy them. The lorry would then take the drug to the wholesale druggist in Kingston. On the waste ground that has been left behind by the hurricane of August 1951, hundreds of castor oil plants are springing up, but few of the seeds are collected. The strong winds that Jamaica is subject to have also been responsible for the cessation of the nutmeg crop as a commercial proposition, for the trees inevitably have been blown down. The remaining trees, however, produced the well known peach-like fruit containing inside the fleshy pulp the mace which surrounds the shell, inside of which is the nutmeg. The Jamaican ginger industry had been placed in a difficult position, the lecturer said, because of a drop in price that followed over-production that resulted from a temporary high price which the commodity commanded a few years ago. According to an official only about a dozen cinnamon trees were growing in Jamaica, including those in botanic gardens. Mr. Short learnt that only one grower still produced vanilla pods in Jamaica. Although the lecturer knew a district where quassia grew (Jamaica being the only territory which produces this wood) he could find no one who knew what the tree looked like. He found one factory that was still handling log wood and fustic wood for the preparation of extracts for export to Manchester for dyeing fabric. Pimento grows well in the higher altitudes of the island. The fruits, he said, are exported to Great Britain and the United States. The leaves, however, are distilled and the oils exported to those countries. Capsicum grows "like weeds," but is not collected. Nothing has been done with cinchona plants on the island for one hundred years.

A Fish Poison

Among other plants of economic value that he saw growing were vetivert grass or cus-cus, the root of which possesses a heavy odour and is used for odoriferous mats that are popular with Indians. It is also used for the production of essential oil. Tamarinds and kola nuts also grow well in the Island. Jamaican dog-wood bark, which is produced by an attractive tree, contains an active principle that is used in the Islands as a fish poison. For that application the bark is soaked in the residue from rum distilling, placed in a basket and "run" up and down the river. The fish then come to the top stupefied. It has been used also for the relief of neuralgia and whooping cough. 150,000 cocoa trees have been planted and it is hoped that within five years cocoa production will become a major industry. The trees are disease resistant.

After the lecture members present were invited to inspect the many specimens that the lecturer had exhibited. (Two are illustrated on p. 431).

TRADE MARKS

From the "Trade Marks Journal," October 7

For pharmaceutical preparations excluding medicated wine (5)

TUDOR ROSE, B718,650, by Thornton & Ross, Ltd., Huddersfield.

For insecticides (5)

LENDASTAN, 718,956, by the Standardised Disinfectants Co., Ltd., London, S.W.1.

For pharmaceutical preparations (5)

HEPTANYL, 718,985, by Neodrog, Courbevoix (Seine), France. PACHOL, 719,123, by Laboratoires Robert & Carrière, Paris, France. MELONY, 719,560, by Samuel Dronfield Andrew, Mellor. LEYCON, B719,748, by John Geddes, London, S.E.27. KOLANTYL, 719,880, by Vick International, Ltd., London, S.E.1. SANDOSTENE, SANDOSTININ, 719,925-26, by Sandoz, A.G., Basle, Switzerland. YAMSIL, 721,100, Malcolm Walker, Romley, Ches.

For pesticides, herbicides and fungicides (5)

DEECHLOR, 719,030, by Pest Control, Ltd., Bourn.

For barbituric drugs (5)

PHENOMET, AMYLOMET, 720,522-23, by British Ethical Proprietaries, Ltd., Taunton.

For all goods (5)

VIRISED, 721,112, by Clinical Products, Ltd., Richmond.

For pharmaceutical, veterinary and sanitary substances (5)

HEPSAN, PRIATAN, SOVENTOL, VERICARZOL, 721,187-92, by Knoll, A.G., Ludwigshafen, Germany.

From the "Trade Marks Journal," October 14

For industrial, scientific and photographic chemicals (1)

VESTYRON, 720,727, by Chemische Werke Huls G.m.b.H., Recklinghausen, Germany.

For fertilisers (1)

FOSSMONIO, 721,072, by Rumianca, S.p.A., Turin, Italy.

For toilet preparations for the hair (3)

PERT, B715,922, by Frederick Henry Dimmock, London, W.1.

For non-medicated toilet preparations (3)

LINC-O-LIN, 717,914, by Lincoln Hair Products, Ltd., London, W.8. DANSEUSE, PICCOLO, 718,915-B718,919, by Harry Green, Ltd., Barking.

For all goods (3)

TETRIDE, 720,378, by Moore Medicinal Products, Ltd., Aberdeen.

For hair-conditioning preparations (3)

LIFE-TEX, 721,738, by Wella Rapid, Ltd., London, N.W.1.

For all goods (5)

CIBATONE, CIBEMONE, 721,551-52, by Ciba, Ltd., Basle, Switzerland. DOLORGIE, 718,252, by Fabrik Chem. Pharm. Preparate, Godesberg, Germany. TERRASYTAM, 720,151, by the Murphy Chemical Co., Ltd., Wheatthampstead. RIDDIOPIN, RIDDOSADD, RIDDOSPAS, 720,201-03, by Riddell Products, Ltd., London, W.1. TETRIDE, 720,379, by Moore Medicinal Products, Ltd., Aberdeen. MEBATAN, 721,418, by The British Drug Houses, Ltd., London, N.1. TRIBRISSIN, 721,589, by The Wellcome Foundation, Ltd., London, N.W.1. KIDIMETIC, 721,671, by Clinical Products, Ltd., Richmond, Surrey.

For medicines in the treatment of amenorrhoea and dysmenorrhoea (5)

EUMENOL, 716,489, by E. Merck, Darmstadt, Germany.

For pharmaceutical preparations (5)

EUPACO, 716,490, by E. Merck, Darmstadt, Germany. XYLODET, 717,610, by Reckitt & Colman, Ltd., Hull. ZYMODROPS, 718,799, by Upjohn of England, Ltd., London, E.C.2. PUROVETRINE, 719,928, by Sandoz, A.G., Basle, Switzerland. PHENERYL, 720,460, by May & Baker, Ltd., Dagenham. CREMYODE, 720,917, by Cremyde Co., Wembley. TONIAZOL, 721,361, by Knoll A.G., Ludwigshafen-on-Rhine, Germany. PARABORTINE, 721,455, by Bayer Products, Ltd., London, W.C.2. PARABORTINE, 721,456, by Winthrop Products, Ltd., London, S.W.1.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, October 26

FINCHLEY DIVISION, NORTH LONDON PHARMACEUTICAL ASSOCIATION, Bull and Butcher Hotel, Tottenham Corner, Whetstone, London, N.20, at 8 p.m. Address on "Wound Irrigation Technique" by a representative of Milton, Ltd.

Wednesday, October 28

CROYDON PHARMACISTS' ASSOCIATION and BRANCH, Café Royal, North End, Croydon, at 6.45 for 7.15 p.m. Dinner and dance.

ENFIELD CHEMISTS' ASSOCIATION, Fir's Hall, Winchmore Hill, London, N.21, at 7.30 p.m. Supper and dance.

LEEOS BRANCH, PHARMACEUTICAL SOCIETY, Parkway Hotel, Otley Road, Leeds, at 6.30 for 7 p.m. Annual dinner and dance.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, theatre visit. Coach departures: Chelmsford bus station, at 5.45 p.m.; Upminster Bell, 5.55 p.m.; Romford Market, 6.10 p.m.

Thursday, October 29

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Bull Hotel, High Street, Dartford, at 8 p.m. Dinner.

DONCASTER BRANCH, PHARMACEUTICAL SOCIETY, Danum Hotel, Doncaster, at 8.30 p.m. Dance.

EOINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Mr. E. Knott (Heriot-Watt College) on "A Review of the B.P., 1953."

LIVERPOOL CHEMISTS' ASSOCIATION and BRANCH, Premier Buildings, Liverpool, at 7.30 p.m. Dr. K. R. Capper on "The National Formulary, the British Pharmaceutical Codex and other Publications of the Pharmaceutical Society."

NORTH NOTTINGHAMSHIRE BRANCH, NATIONAL PHARMACEUTICAL UNION, Victoria Hotel, Albert Street, Mansfield, at 7.30 p.m. Annual meeting.

SOUTHERN-ON-SEA BRANCH, PHARMACEUTICAL SOCIETY, Queen's Hotel, Westcliff-on-Sea, at 7.30 p.m. Dr. H. Davis (Chief pharmacist, Ministry of Health) on "The Work of the Ministry of Health in Relation to the Retail Pharmacist."

Friday, October 30

HULL CHEMISTS' ASSOCIATION and BRANCH, Imperial Hotel, Hull, at 8 p.m. Illustrated address on "The Story of an EC10" by Mr. E. A. Brocklehurst (vice-president of the Pharmaceutical Society).

Advance Information

LONDON PHARMACY RAMBLERS are walking eleven miles in Roffey Park and Horsham, Sussex, district on November 1.

LECTURES ON THE PHARMACOPOEIA. The first of a series of six lectures organised by the Pharmaceutical Society of Great Britain on different aspects of the British Pharmacopoeia takes place at 7.30 p.m. on November 4. Mr. T. C. Denston, B.Pharm., Ph.C., F.R.I.C. (secretary, British Pharmacopoeia Commission) is then giving a "General Survey of the B.P., 1953."

PRINT AND PUBLICITY

Advertising Campaigns

CELLUCOTTON PRODUCTS, LTD., 33 Aylmer Parade, London, N.2: National advertising of new "stay-soft" Kotex sanitary towels in women's magazines.

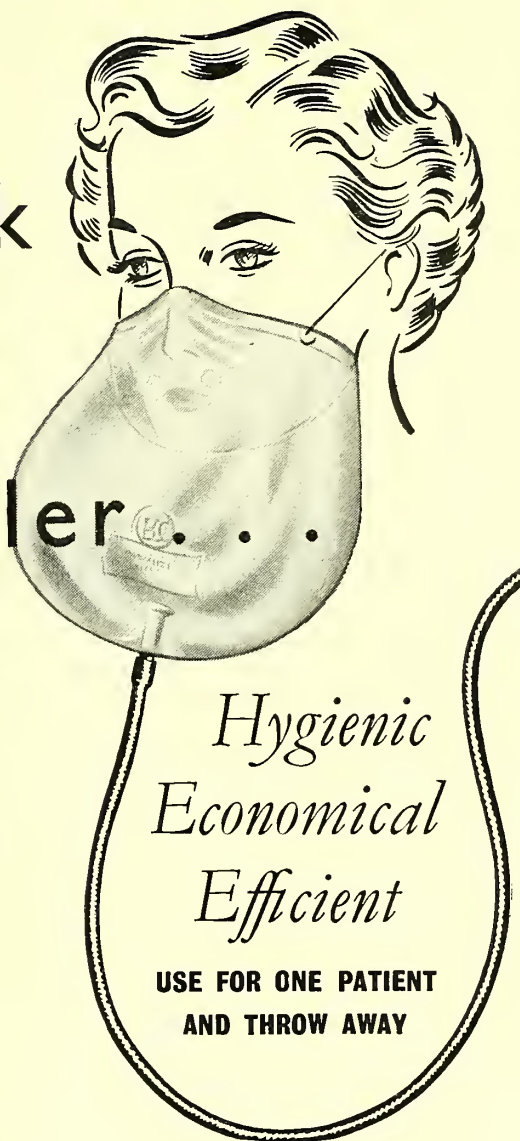
ENERGEN FOODS CO., LTD., Pound Lane, Willesden, London, N.W.10: A new campaign for Energen rolls will open in November and continue throughout the winter in women's magazines, London and main provincial evening newspapers, the *Radio Times* and specialised magazines. The campaign will be backed by point-of-sale material to be issued early in the new year and will be augmented by local campaigns in selected areas.

NOW—

The Polymask

expendable

Oxygen inhaler...



Hygienic

Economical

Efficient

**USE FOR ONE PATIENT
AND THROW AWAY**

The low cost permits of a new mask being used for every patient. The risk of spreading infection is thereby avoided.

Strong, feather-light, safe, and comfortable to wear, this new type of mask conforms readily to the face structure, stays firmly in position, and permits conversation to be carried on quite easily. The periphery seals efficiently with the skin, giving high alveolar concentration . . . e.g approximately 70% at 7 litres of Oxygen per minute.

Available singly, or in boxes of 12, from chemists or any B.O.C depot, at only 2/3d per mask.

THE BRITISH OXYGEN CO. LTD

MEDICAL DIVISION



Great West Road
Brentford
Middx.

SERVICE AS UNIVERSAL AS THE NEED

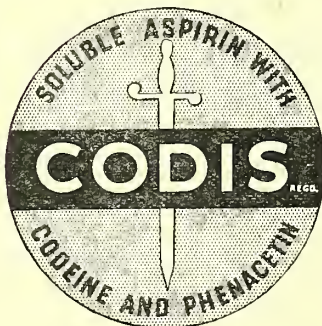
Analgesic Therapy

TAB. CODEIN. Co. B.P., or CODIS?

The manufacturers of 'Solprin' direct your attention to 'Codis' for all those conditions for which Tab. Codein. Co. B.P. would have been prescribed. Codis possesses marked advantages. The 'aspirin' in Codis is *soluble*, as in 'Solprin'.

Placed in water, a Codis tablet provides, in a few seconds, a solution of calcium aspirin and codeine phosphate with phenacetin in fine suspension. The chance of irritation of the gastric mucosa is minimised because there are no undissolved particles of aspirin.

Other notable advantages of Codis, arising from the inclusion of aspirin in a stable and soluble form are, greater ease of administration and far less likelihood of intolerance by the patient. Being in solution, the aspirin is immediately available.



COMPOSITION

Each Codis tablet weighs 11.45 grs. and contains:—
Acid. Acetylsalicyl. B.P. 4 grs., Phenacet. B.P.
4 grs., Codein. Phosph. B.P. 0.125 grs., Calc. Carb.
B.P. 1.2 grs., Acid. Cit. B.P. (Exsic.) 0.4 grs.

Codis is not advertised to the public.

DISPENSING PACK (Purchase Tax Free), 300 tablets in distinctive gold foils of 6 tablets each, 16/6 per box.

OTHER SIZES—Packs of 20 tablets, 2/7 each inc. P.T. (in bottles or foil).



DON'T TAKE COLD

TAKE CROOKES

A Tremendously Powerful Campaign

Standard Bonus Parcels			
PARCEL	39 x 25 Capsules @ 2/6 Retail		
E	Total retail value	£4 17 6	
	Cost of parcel	£3 0 9	
PARCEL	26 x 5 ml. Drops @ 2/- Retail		
F	Total retail value	£2 12 0	
	Cost of parcel	£1 12 5*	
PARCEL	13 x 15 ml. Drops @ 5/- Retail		
G	Total retail value	£3 5 0	
	Cost of parcel	£2 0 6	
PARCEL	13 x 30 ml. Drops @ 9/- Retail		
J	Total retail value	£5 17 0	
	Cost of parcel	£3 12 11	
PARCEL	26 x 25 Capsules @ 2/6 Retail		
	13 x 100 " @ 8/6 Retail		
K	Total retail value	£8 15 6	
	Cost of parcel	£5 9 4	
PARCEL	13 x 100 Capsules @ 8/6 Retail		
L	Total retail value	£5 10 6	
	Cost of parcel	£3 8 10	
PARCEL	13 x 15 ml. Infants' Emulsion @ 3/6 Retail		
P	Total retail value	£2 5 6	
	Cost of parcel	£1 8 4*	

*Postage extra on orders under £2.0.0 nett.



P.A.T.A.

Order Now

CROOKES HALIBUT OIL

THE CROOKES LABORATORIES LIMITED · PARK ROYAL · LONDON N.W.10

heralds the 1953/54 season

The vast coverage of the press, National Dailies, Weeklies, Monthlies, Sports Journals, Mothercraft, Educational, etc. etc., is now reinforced twice weekly with programmes from Radio Luxembourg together with Colour Filmlets in 1,000 cinemas covering the whole country.

GENEROUS BONUS TERMS
are available (including a new parcel K, 24 x 25 and 12 x 100 Capsules).

FULL RANGE OF SHOWCARDS.
DRESSED WINDOW DISPLAYS.

MASON PEARSON

This hairbrush with the famous name is the subject of a new advertising campaign in national and women's publications. Once again its unique qualities are being brought to public notice, and increased sales are sure to follow. To the trade those qualities are too well known to need fresh recommendation. Stockists are strongly advised to ensure that they have ample supplies to meet the extra demand.

**THE ORIGINAL—
AND STILL THE BEST!**



*Retail prices
now range
from*

10/-
to 52/6

*Mason Pearson
Brothers
70 Piccadilly,
London, W.1.*

HOW THE MODERN CHEMIST SAVES TIME • LABOUR • COSTS!

New System Is Rapidly Becoming Popular with Small and Large Concerns

It is a common fallacy that the so-called "small" business cannot "afford" modern systems.

It is probably true to say that the smaller the business the more essential is the need for visible records.

After all, most small businesses—chemists in particular—cannot afford expensive clerical labour. The wages of one or two clerks might make all the difference between loss and profit.

Visible records save the chemist

1. **Time**—in finding and referring—in checking stocks, in turning up suppliers, in verifying prior purchases and prices, in querying credit . . . and like essential information.
2. **Expenses**—in entering facts and figures Visible records are quicker than bound books. You can enter several items on visible records while you are finding one page in a bound book. And with the Visicopier multi-copying plate you can make three entries with one writing!
3. **Money**—because visible edges remind you of outstanding debts, instalments, etc. Many chemists say that the modest cost of visible records is more than recovered by this one factor alone.

Which visible record should you use? Please let us show you. There are many advantages in the Shannoleaf system apart from their simplicity. And there are special records designed by Chemists for Chemists. They are low in first cost and low in upkeep cost. Just write "Chemists Records" on your letterheading for full details without obligation.

Shannon Systems

FIRST IN FILING

THE SHANNON LTD.,

122 Shannon Corner, New Malden, Surrey

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'RADIO-MALT'

for radiant health

The luscious toffee flavour makes Radio-Malt a favourite with the children—and parents are delighted with an established vitamin preparation, such as Radio-Malt, which the children take so readily. They know it helps to safeguard children against winter ills.

This is the time to remind your customers about Radio-Malt. A gay, coloured cut-out (12" x 19") will be available shortly. Please ask for one.

	TRADE:	RETAIL:
Prices: 1 lb. -	2/5½	3/6
" 2 lb. -	4/2	6/-
Quantity terms on application		

THE BRITISH DRUG HOUSES LTD. LONDON N.1

RM/T/10

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NEW ANDROGEN OF SPECIAL VALUE IN GYNAECOLOGY ANDROSTALONE

Methylandrostan - 17ol - 3one

ROUSSEL

MORE POTENT—

- As an antioestrogen (1), atrophy of the endometrium can be obtained with Androstalone; hence its use in menometrorrhagia, etc.
- In mammary carcinoma (2), given by injection, it has proved as effective as testosterone on bone metastases, and more effective on soft-tissue lesions.
- As a protein anabolic (3), given by injection, it was found more effective than testosterone.

YET LESS MASCULINISING—

No masculinisation has been noted with normal doses by mouth or by injection (no genital changes, no hirsutism, etc.), but only a slight increase in the libido (1-3).

FOR SUBLINGUAL ADMINISTRATION

1-3 glossettes of 25 mg. daily for 1-3 weeks.
Containers of 12 glossettes also bottles
of 100 and 500 glossettes.



- (1) 1951 Ann. Endocrinol., 12, No. 6, 1082.
(2) 1953 Paper presented at American Federation
for Clinical Research, New Orleans, January 30.
(3) 1952 Ann. Endocrinol., 13, No. 5, 883.

ROUSSEL LABORATORIES LTD. 843-847 Harrow Road, London, N.W.10. LADbroke 3608

5 GOOD REASONS why women will be asking for



- ★ First of all remember that Piver Perfumes are *created, packed and sealed* in Paris.
- ★ Brilliantly - designed packaging enables Piver to make their famous perfumes widely available at a more realistic price range.
- ★ Therefore women get luxury French perfumes without luxury cost.
- ★ L.T. Piver Perfume stockists can be assured not only of increased advertising, as now, but of *regular* advertising.
- ★ L.T. Piver Perfumes have been a part of Paris since 1774, as any gay Parisian will tell you.

Piver Paris Perfumes

Les Fleurs (8 fragrances)
13/4 retail.

Le Trefle Incarnat Rêve d'Or
Pompeia Cuir de Russie Floramye
14/8 and 19/11 retail.

Special pochette size 5/11.

PIVER of Paris

Write to Sole Importers: F. & G. Turnpenny Ltd., 5, Great Winchester Street, London, E.C.2

ATTENTION ALL PHARMACISTS

BENGUE'S PURE ETHYL CHLORIDE for Local and General Anæsthesia

Plain or perfumed with Eau de Cologne

This pioneer brand of Ethyl Chloride is of undoubted purity and anæsthetic power, and proved by over 50 years of use by the medical and dental professions.

PACKINGS

For "Local" Anæsthesia: Tubes of 30 gm.,
50 gm. and 100 gm.
For "General" Anæsthesia: Tubes of 50 gm.,
and 100 gm.

All tubes are fitted with automatic spray caps, and may be returned for *refilling only* at much reduced cost.



BENGUE & CO., LTD., **PATA**

Manufacturing Chemists,

MOUNT PLEASANT, ALPERTON, WEMBLEY, MIDDLESEX



PENICILLIN INHALATION SET

FOR NASAL AND
ORAL INHALATION

Each set contains one inhalator and two vials each containing three capsules each 100,000 units crystalline penicillin potassium salt
RETAIL 15/9

ALSO SUPPLIED SEPARATELY

1 INHALATOR RETAIL 5/-

1 BOX 6 CAPSULES RETAIL 10/9

1 BOX 9 CAPSULES RETAIL 13/9

EXEMPT FROM PURCHASE TAX

THE ARMOUR LABORATORIES
(ARMOUR & COMPANY LTD.)

LINDSEY STREET, LONDON, E.C.1

Telephone: Clerkenwell 9011

Telegrams: "Armosata-Phone," London

In the service of Pharmacy

since
1839

Arthur H. COX & CO. is an old established House offering a professional service which is a combination of traditionally English craftsmanship, wide experience and the most modern scientific methods.

Specialists in the manufacture of

PILLS · PASTILLES · **TABLETS** · SOLVELLÆ, ETC.

ARTHUR H. COX & CO. LTD. BRIGHTON



EXTRA DISCOUNT.

You can earn extra discount on Silcot Cotton Wool Towels. That is, extra discount on an extra good, nationally advertised towel.

It's **EXTRA !**

YOUR BIGGER EXPENSES.

You are paying more than ever for wages, fuel, etc. These charges are growing heavier all the time. Silcot discount helps you to meet them.

CONSTANT SELLER.

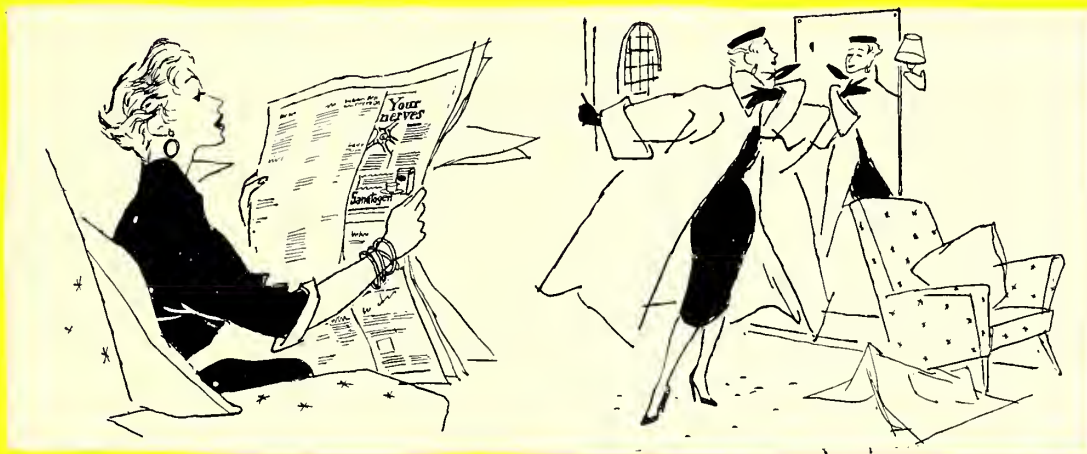
The constant, popular demand for Silcot Cotton Wool Towels makes extra discount very worth while. Sell Silcot and you please your customers. Sell Silcot and you make better profits.

SILCOT

Cotton Wool Towels

MACDONALD & SON LTD · HOPE MILLS · POLLARD STREET · MANCHESTER 4

Women always have the best intentions



but since they also have short memories



it is only sensible to remind them . . .



Use your

Sanatogen

display material — showcard, crowners, leaflets—to tie in with the new Sanatogen advertising! Large spaces will be appearing in national newspapers and the popular and women's magazines. Make a special note of October 29 and November 7—peak dates in the new Sanatogen campaign.



DUNLOP

HOT WATER BOTTLE
—still first for Quality and Value



★ In addition to the world's most luxurious hot water bottle — the Cosimax — and the well-known Fabric Insertion and All Rubber Moulded types, Dunlop have introduced for the first time this season the new "Renown" with its wider neck for easy filling, greater capacity, and recessed hanging hole. In addition, the Standard Moulded bottles in size 2 and 3 are available in attractive pastel shades, as well as standard red, blue and green.

Sell **DUNLOP** — *the*

DUNLOP CHILDREN'S HOT WATER BOTTLES

RED
HOOD

CLOWN



TEDDY



DOGGY



BRUIN



KITTY



BUNNY



MONKEY

tainable only
through your
usual
wholesalers

★ The well-known range of Children's bottles, illustrated above, is now available in soft pastel colours. Watch for the illustrated brochure which is coming to you direct. Advertising to your customers will commence in the National Press and high-class magazines in November.

ame your Customers Trust!

Presenting
ILLMOND
COTTON WOOL DISPENSER
(PLEATED FILLING)

ATTRACTIVE FEATURES

- ★ Only as much as you need is pulled out at a time
- ★ Package has tuck-in ends and can be re-sealed
- ★ Cotton wool kept clean throughout
- ★ Elegant design of pack appropriate for a lady's dressing table



Wholesale only—**E. ILLINGWORTH & Co.**

Telephone
LOW MOOR 400/4

(Bradford) Ltd.

Telegrams
ILLMOND, BRADFORD

ESTABLISHED ALMOST 100 YEARS

SHELF MILLS SHELF Nr HALIFAX YORKSHIRE ENGLAND



GALENICALS for WINTER DISPENSING

*Manufactured under strict
supervision from finest
quality ingredients.*

RICHARD DANIEL & SON LTD.
MANUFACTURING CHEMISTS
MANSFIELD ROAD **DERBY** TEL: 48266 (4 lines)
And at GROSVENOR ST., ASHTON-U-LYNE. Tel: 2816 (3 lines)

Why it is better to sell

PARADOR

. . . and PARADOR really is SELLING!

PROFIT is never less than $33\frac{1}{3}\%$.

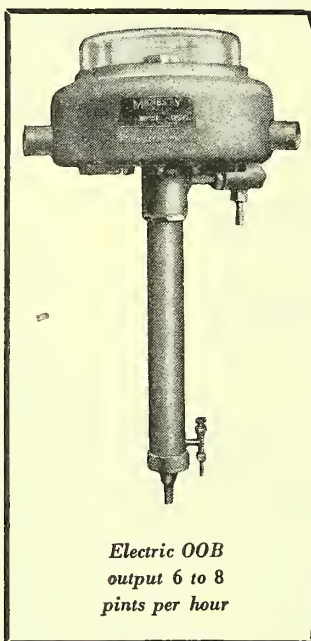
ADVERTISING is constantly reaching
the 17 million readers of the
RADIO TIMES.

DISPLAY—a compact one dozen display
outer that is not too large for
your counter.



PARADOR GIVES YOU GOOD PROFITS AND REPEAT SALES

Sole Makers: THOMPSON & CAPPER WHOLESALE LTD., LIVERPOOL



*Electric OOB
output 6 to 8
pints per hour*

MANESTY

AUTOMATIC STILLS

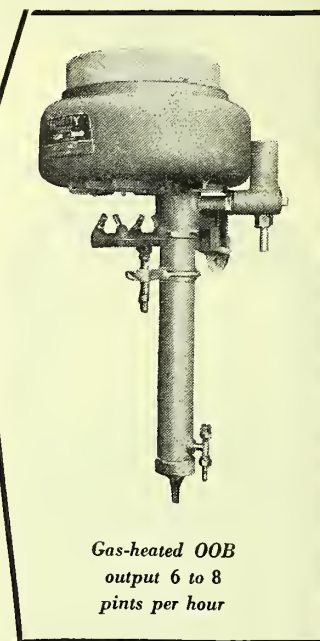
WITH THE NEW VITREOUS FINISH

The MANESTY Automatic Water Still, OOB gas, paraffin or electric operated model, is now available in the new vitreous finish.

Simply installed, MANESTY Stills ensure a constant supply of fresh, pure distilled water. No storage, handling or transport problems arise, and to save further floor space a wall bracket is provided with each model.

MANESTY Stills are available for outputs ranging from 2 pints to 50 gallons per hour at extremely low running costs.

For further details send for our fully illustrated leaflets TODAY.



*Gas-heated OOB
output 6 to 8
pints per hour*

MANESTY
DEPT. 5

Telephone: Hunts Cross 1972

MACHINES LTD.
SPEKE

LIVERPOOL 19

Telegrams: Manesty, Liverpool 19

MANESTY
Machines and Stills
are now used in over
60 countries

TABLET MACHINES · COATING PANS · GRANULATORS · MIXERS · PUNCHES & DIES

IMPORTANT TO CHEMISTS

Through the expressed enthusiasm of satisfied users and the recommendations of pharmacists, the sales of Dr. Page Barker's Scurf and Dandruff Lotion have been steadily increasing over recent years

**NOW TO SPEED THIS UPWARD SALES TREND
ADVERTISING IS COMMENCING IN OCTOBER FOR
DR. PAGE BARKER'S SCURF AND DANDRUFF LOTION**

Full colour showcards for display can be supplied by our representative when he calls—or sent direct on request

THOS. CHRISTY & CO. LTD · NORTH LANE · ALDERSHOT · HANTS.

'Cosmana'

HAND BEAUTY CREAM

introduces itself...

with **FREE SAMPLE** to your
customers and special
BONUS OFFER for you



ANOTHER **NEW** PROFIT MAKER IN THE FAMOUS **DDD** RANGE

Here, for the first time in cosmetic history, is a hand preparation which combines hand CARE with hand BEAUTY. And it means profit for you.

FREE to your customers

To introduce COSMANA to the public we are giving a FREE sample of it with EVERY BOTTLE OF COSMEDIN Beauty Lotion. Your wholesaler has supplies of the combined pack—you just specify "Cosmedin/Cosmana Special Offer" when you order. There is a limited period only for this Special Offer so make sure you get your supplies quickly!

SPECIAL BONUS OFFER for YOU

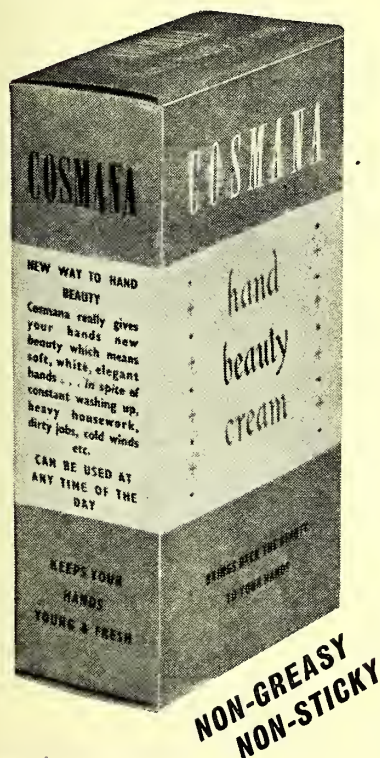
From now until November 30th we offer you SPECIAL BONUS of 13 to the DOZEN on all orders for COSMANA HAND BEAUTY CREAM—whether ordered direct from us or from your wholesaler. COSMANA retails at 2/- and 5/- per bottle. Your profit is 33 $\frac{1}{3}$ %. (List prices 10/8d. and 26/8d. per dozen respectively.)

Heavy national press advertising will send Cosmedin users to you... first for the special offer pack... then for COSMANA HAND BEAUTY CREAM. Be sure you can supply the demand by SENDING IN YOUR ORDER TODAY!

RETAIL CHEMISTS PLEASE NOTE! We would like you to satisfy yourself on the merits of COSMANA HAND BEAUTY CREAM. Therefore we shall be very pleased to send you a sample bottle for your wife to try, if you will write to us under your label or official letterhead.

Orders and enquiries to:

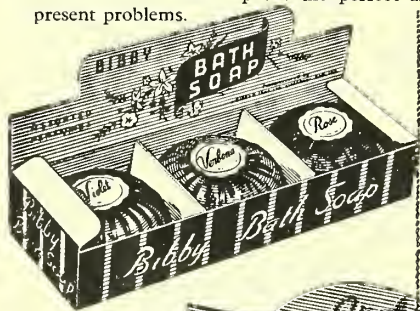
DENDRON DISTRIBUTORS LTD
94 RICKMANSWORTH ROAD WATFORD HERTS



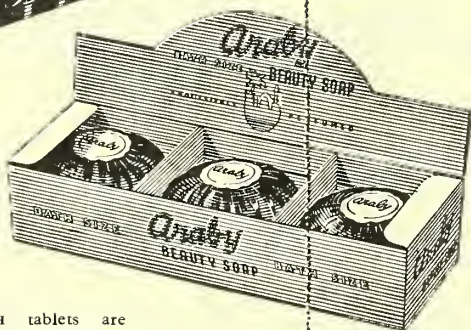
Bibby Soaps go Gay for CHRISTMAS

THREE SPLENDID LINES FOR YOUR SEASONAL SALES DRIVE

Here they are—lovely Bibby soaps in their party dresses. Order them soon and order plenty. Scores of your customers will find these festive packs the perfect answer to their present problems.



Here's a gift-box with three tablets of BIBBY BATH ASSORTED. Violet, Rose and Verbena scented, wrapped in coloured cellophane. Retail price 3/9d.



ARABY BATH tablets are wrapped in blue cellophane with a gold seal. They're sold in gift boxes of three, retail price 3/3d.



These are the ARABY TRIPLETS in their 'Christmas Greetings' pack, retail price 1/6d. Remember, sales of this exciting beauty soap are backed up by a big national press campaign.

For full particulars of the generous trade terms write to your usual wholesaler, or direct to:



J. BIBBY & SONS LTD., KING EDWARD STREET, LIVERPOOL 3

**stocking
up**

time is coming
so stock up now with
these merry Christmas
packs from
Bibby.

*When a customer
does
this...*



*..sell
him
these*



NON-SLIP

'SPEC-GRIPS'

TRADE MARK

Pat. No. 647864

- Glasses kept perfectly adjusted, no matter in what position head is held.
- Made of specially processed corrugated Latex. Washable, hygienic, coloured to tone with frames.
- Attractive, quick-sale, dispenser show-card allows product to "sell itself".
- Retails at 2/- per pair, with nearly 50% margin of profit to retailers.

ASK YOUR WHOLESALER
FOR PARTICULARS
OF TRADE TERMS,
OR WRITE DIRECT
TO SOLE
MANUFACTURERS

Approximately
10,000 pairs of
spectacles are issued
each week under
the National Health
Scheme.

EAGLE GRIP PRODUCTS LTD.

273 WALWORTH ROAD · LONDON, S.E.17

Phone: RODney 6088 & 4102

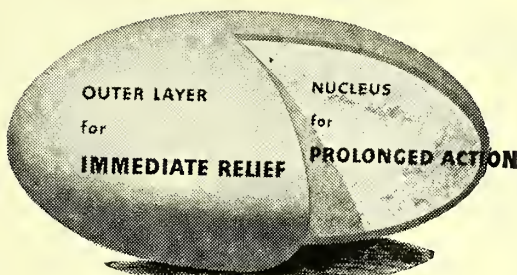
A NEW TWO-PHASED ASTHMA THERAPY

PHASE I

The tablet is placed beneath the tongue and the outer layer of Isopropyl-nor-adrenaline is absorbed via the mucous membrane of the floor of the mouth, exerting an immediate broncho-dilatory effect.

PHASE 2

The remainder of the tablet is then swallowed and the alimentary absorption of Ephedrine and Theophylline in the nucleus, continues and prolongs the antispasmodic action upon the bronchial smooth muscle.



FORMULA

Isoprenaline (Isopropyl-Nor-Adrenaline) Sulphate B.P.	...	0.015 Gm.
Ephed. Hydrochlor. B.P.	...	0.025 Gm.
Theophylline B.P.	...	0.13 Gm.
Excipient	...	to 0.4 Gm.

Iso-Bronchisan presents all the essentials for smooth, swift and sustained asthma therapy in a simple self-administered medication.

The retail price of Iso-Bronchisan is 4s. 9d. per tube of 20 tablets. The 25% trade discount gives a profit of 14s. 3d. on every dozen tubes sold. Make sure of your profit by placing an order with your usual wholesaler NOW.

Retail Price 57s. 0d. per doz.
Trade Price 42s. 9d. per doz.
Wholesaler's Discount, 12½%
+ 2½% cash discount.

(Exempt from Purchase Tax)

ISO-BRONCHISAN

SILTEN LTD. SILTEN HOUSE, HATFIELD, HERTS.

TABLETS

VIMALTOL

A QUALITY PRODUCT OF MODERN NUTRITIONAL SCIENCE

'VIMALTOL' is a concentrated vitamin food, formulated by and prepared under the control of the 'Ovaltine' Research Laboratories—which are actively investigating problems in nutrition and dietetics. They bring to its manufacture a high degree of scientific knowledge and a meticulous standard of hygiene.

'Vimaltol' contains malt extract, yeast, halibut liver oil, vitamins and iron. Every ingredient used is rigidly tested for purity and quality, the final product being accurately standardized for vitamin content.

'Vimaltol' provides valuable nutrients of undoubted assistance to infants, fast-growing children, nursing mothers and to those whose diet is inadequate or unbalanced. It helps to build up strength, weight and the natural powers of resistance. 'Vimaltol' is highly palatable—a decided advantage when recommending it for children.

Standardized to contain in each oz. Vitamin A, 1420 i.u.; Vitamin D, 710 i.u.; Vitamin B₁, 0.35 mg.; Vitamin B₂ (Riboflavin), 0.2 mg.; Niacin (P.P. Vitamin), 2.8 mg.; Iron, 3.3 mg. in a readily assimilable form.

On the **PATA**

Trade Prices: 1 lb. jars 30/6 per doz.; 2 lb. jars 54/- per doz.
 (Exempt from Purchase Tax)

Retail Prices: 1 lb. jars 3/6; 2 lb. jars 6/3

For further details write to:
 A. WANDER LTD.,
 42 Upper Grosvenor Street,
 Grosvenor Square, London W.1.



A Product of the
 'Ovaltine' Research
 Laboratories



T.21



THERE'S ALWAYS A CUSTOMER FOR JOHN BELL'S COLD CAPSULES



Few will get through this winter without having had a Cold, Feverish Chill or Influenza. Order supplies today for the many who will certainly ask for

JOHN BELL'S COLD CAPSULES

Display the handy pack and get the maximum benefit from impulse sales.

BONUS DISPLAY TERMS

13 for every dozen on orders of 3 dozen and over: attractive display stands supplied.

Retail price 1/10d. (Inc. Tax)
per tin.

Trade 11/6d. per dozen.
(P. Tax 2/10d.)

JOHN BELL, HILLS & LUCAS LTD.

Oxford Works, Worsley Bridge Road, London, S.E.26

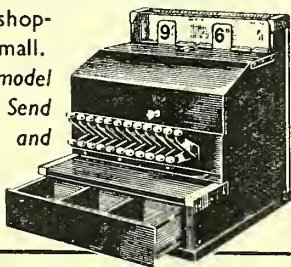
C&G

THE WARNING BELL

A ring of the bell on a Gledhill Cash Register is at once an assurance and a warning. Money is either being paid in or taken out. Every time the bell rings five protective features come into operation to safeguard your interests, to check your assistants and to give confidence to your customers.

Gledhill Registers represent the highest perfection in mechanical accounting for shopkeepers large and small. There is a suitable model for your business. Send for fully informative and illustrated Catalogue.

**BRITISH MADE
FOR 60 YEARS**



G. H. GLEDHILL & SONS LTD
TRINITY WORKS, HALIFAX

BRANNAN GUARANTEED THERMOMETERS

CLINICAL - HOUSEHOLD - INDUSTRIAL

When ordering Thermometers, insist upon Brannans — made by highly skilled workers at Britain's most modern Thermometer Factory.

S. Brannan & Sons Ltd.

Clinitherm Works,
Dalmain Road, Forest Hill,
London, S.E.23

Telephone: Forest Hill 3414 P. Ex.

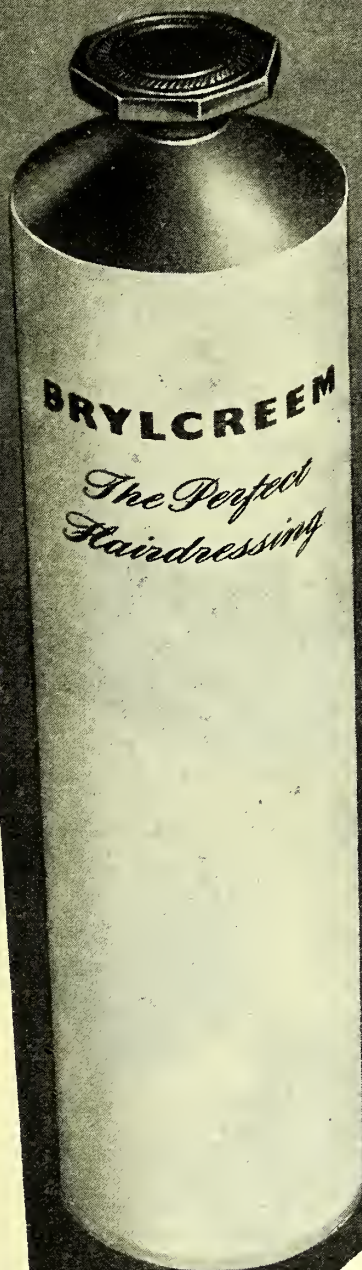
Northern Factory:

Cleator Moor

West Cumberland

Tel.: Cleator Moor 310





*If personal service and faultless
workmanship are required*

U·M·P
is the answer

Have you contacted
U·M·P PLASTICS *for*
your requirements in
MOULDED PLASTIC CONTAINERS?

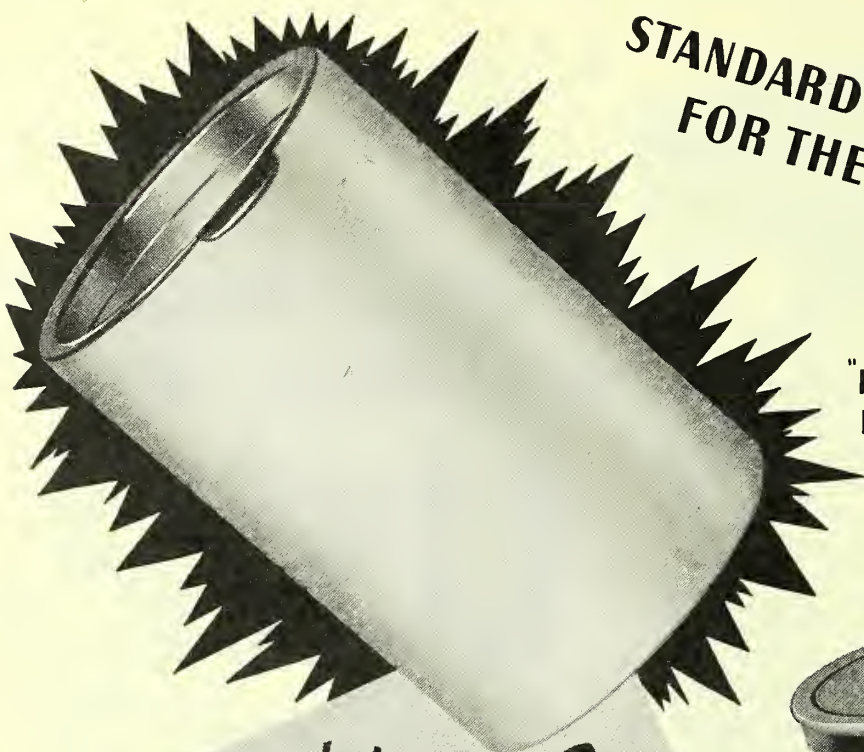


THE SIGN OF SERVICE
AND CO-OPERATION

UNIVERSAL METAL PRODUCTS LTD.

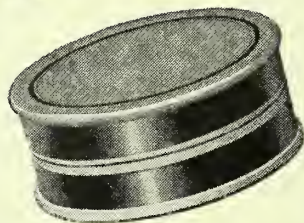
SALFORD 6 LANCs. Telephone: PENDLETON 1631-2-3
LONDON OFFICE: ARGYLE HOUSE, 29/31, EUSTON ROAD, N.W.1. TEL. TERMINUS 2073

STANDARD ROUND BOXES FOR THE CHEMIST—



"LITTLE JOHN"
DRUMS

— by
ROBINSONS
of
CHESTERFIELD
of course



PILL
BOXES



CHEPETTE &
SEALITE
OINTMENT
BOXES



ALL AVAILABLE FROM STOCK THROUGH YOUR USUAL SUPPLIER
ROBINSON & SONS LTD WHEATBRIDGE MILLS, CHESTERFIELD

Telegrams: 'BOXES' CHESTERFIELD Telephone: 2105 (6 lines)

and

KING'S BOURNE HOUSE, 229-231 HIGH HOLBORN, W.C.1

Telegrams: 'OMNIBOX HOLB. LONDON' Telephone: HOLborn 6383



Sell these Proved Sales Winners for Christmas!

Once again Nikki de Paris offers you his ace selling French perfume novelties—with several brand new lines to join the ranks of the firm favourites and *proved* sales winners. Every packing an eye-catching gift and wonderful value with a really generous profit margin for you. Make sure of your delivery—send in your order now.



BLACKPOOL TOWER

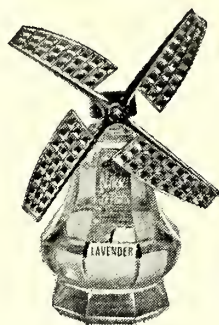
Genuine French Eau de Cologne and Old English Lavender in realistic Tower-shaped bottle; reaching new heights in novelty appeal.

Wholesale price 24/- per doz. (P.T. extra)
Retail price 4/6 each (inc. P.T.)

GOLDEN PERFUME BARREL

Just the novelty that appeals at present - giving time. Genuine French Perfume in beautiful golden, barrel-shaped bottle. Irresistible value.

Wholesale price 16/- per doz. (P.T. extra)
Retail Price 3/3 each (inc. P.T.)



WINDMILL TOILET WATER

Genuine French Eau de Cologne and Old English Lavender in novelty windmill-shaped bottle with golden sails. Ideal gift with which to increase your Christmas turnover.

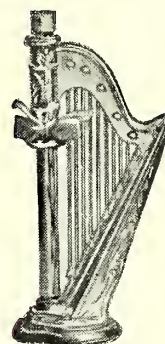
Wholesale price 24/- doz (P.T. extra)
Retail Price 4/6 each (inc. P.T.)

HEAVENSCENT PERFUME HARP

Genuine French Perfume in the latest novelty packing. Hear the sweet music it plays on your cash register!

Wholesale price 38/- per doz. (P.T. extra)

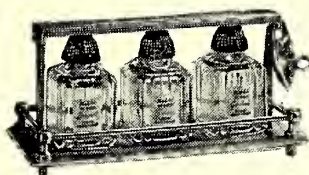
Retail Price 7/6 each (inc. P.T.)



GOLDEN PERFUME BELL

Genuine French Perfume in golden bell-shaped bottle with coloured tassels. Hear it make your cash register ring and ring!

Wholesale price 16/- per doz. (P.T. extra)
Retail Price 3/3 each (inc. P.T.)



TANTALUS PERSONAL PERFUME SET

Three subtle French Perfumes in personal and intimate packing. The tiny padlock really locks and gives the "Tantalus" an extra air of persuasion which makes women want to own it.

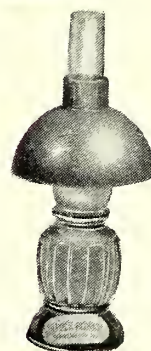
Wholesale price 62/6 per doz (P.T. extra)

Retail Price 12/6 each (inc. P.T.)

COTTAGE LANTERN

Genuine French Perfume in lantern bottle with different coloured lampshades. Amazing low price makes it a bright prospect for quick sales.

Wholesale price 8/- per doz. (P.T. extra)
Retail Price 1/6 each (inc. P.T.)



JEWELLED PERFUME BOTTLE

"Debauche" by Nikki de Paris with the authentic Parisian bouquet in the exquisite bottle jewelled with coloured stones.

Wholesale price 60/- per doz. (P.T. extra)
Retail Price 12/6 each (inc. P.T.)



THERE'S REAL PROFIT IN SELLING NIKKI DE PARIS NOVELTIES

	Cost per Doz.	75 % Tax per doz.	Retail Price per Unit inc. P.T.	Actual Cost per Unit	Profit per Dozen	% of Profit
Jewelled Bottle	60/-	45/-	12/6	8/9	45/-	75%
Heavenscent Harp	38/-	28/6	7/6	5/6	24/-	63%
Tantalus	62/6	46/11	12/6	9/1 1/2	41/6	65%
Filigree	21/-	15/9	3/11	3/-	11/-	52%
Windmill	24/-	18/-	4/6	3/6	12/-	50%
Barrel	16/-	12/-	3/3	2/4	11/-	69%
Bell	16/-	12/-	3/3	2/4	11/-	69%
Blackpool Tower	24/-	18/-	4/6	3/6	12/-	50%
Lantern	8/-	6/-	1/6	1/2	4/-	50%

SEND YOUR ORDER TO

Nikki DE PARIS

L. & G. GODFREY LTD.

Wood Lane, Shepherds Bush, London, W.12.

Tel: SHEpherds Bush 6263



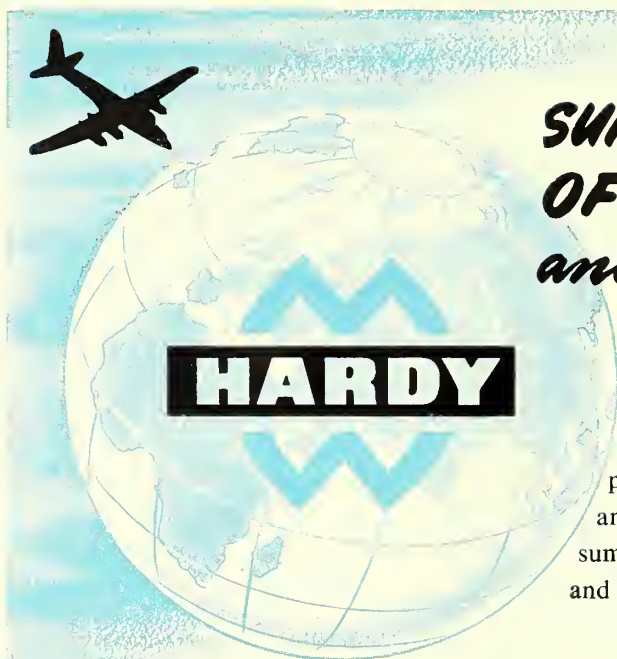
FILIGREE PLAQUE

Genuine French Eau de Cologne and Old English Lavender. A remarkably low-priced adornment in a variety of beautiful colours.

Wholesale price 21/- per doz. (P.T. extra)

Retail price 3/11 each (inc. P.T.)





SUPPLIERS TO THE WORLD OF PHARMACEUTICALS and FINE CHEMICALS

Our long and wide experience of world markets and their special needs enables us to give complete satisfaction and exceptional service. Our prices are always as competitive as possible and we supply direct from source to consumer. Your enquiries for all fine chemicals and pharmaceuticals are invited.

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PINNERS HALL · GT. WINCHESTER STREET · LONDON, E.C.2

Telephone: London Wall 7131 (10 lines) Cables: Hardichem, London



Back at Last.

Imported from U.S.A. America's
well-known "Wigder"

NAIL CLIPS

Great News! This pre-war fast selling line is back again at a keenly competitive price that will bring you a steady, all the year round demand.

Stock up now through your usual wholesaler!

Display cards of one doz. 18/- plus
Purchase Tax. Retail Price 3/4½ each.

WHOLESALE
ENQUIRIES TO:—

Alfred Franks & Bartlett Co. Ltd.,
226/8, Grays Inn Rd., London, W.C.1 · TERminus: 9865-8

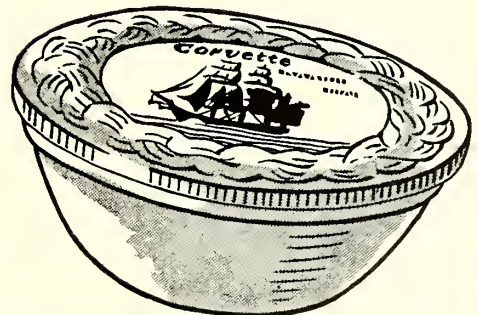
Corvette



The Special 'Wetting Agent'

All the better for shaving, we are telling your customers and giving them these scientific reasons for saying Corvette shaves you better! The special wetting agent in Corvette Shaving Soap breaks the surface tension of the water. This means that Corvette lather spreads more evenly, penetrates deeper, gives you a remarkably good shave.

And your profits will be all the better for Corvette too. Stock the whole matching range: Shaving Bowl 5/3; Bowl Refill 3/9; Shaving Stick 2/9; Stick Refill 1/9; Lather Cream 2/9; Brushless Cream 2/9; Talcum Powder 4/-; Hair Cream 3/-; After Shave Lotion 3/9; Liquid Brilliantine 3/9; Solid Brilliantine 3/3. Corvette is for the man who prefers everything of the best.



Good and Wet!

ALWAYS BUY 'BENZEDRINE' INHALER IN 'DISPLAY DOZENS'

You not only get an attractive and compact display pack to help you increase your turnover, but each display pack comes

with one inhaler extra

so that you get
two shillings extra profit
straight away



Trade Price 18/- per
'display dozen'
Retail price 2/- each
From your usual supplier

MENLEY & JAMES, LIMITED

COLDHARBOUR LANE, LONDON, S.E.5

for Smith Kline & French International Co.,

owner of the trade mark 'Benzedrine'

Silver rinse

ADVERTISING

STARTS WITH

1/2 PAGE RADIO

TIMES NEXT WEEK!



The best silver cleaner costs only 2/6. All your customers will now be able to buy the new-type silver cleaner ... the *real* boom hasn't begun!



the best silver cleaner costs only 2/6d.

Stock up on BONUS TERMS
2 free in every dozen

Details quickly from your wholesaler

You don't
have to wrap
NEW
"STAY-SOFT"
KOTEX



— and it sells itself!

Yes, Kotex is the only sanitary towel, packed hygienically in an immaculate white box, covered with a bright effective wrapper that makes it ideal for display . . . and *sells* Kotex for you! The new green wrapper tears off easily too, so your customers won't be embarrassed by carrying an obvious sanitary towel pack!

What's more, women will soon discover that

the new Kotex is softer, larger—with moisture proof edging and rounded ends. Yes, Kotex with loops is MORE CONVENIENT, MORE COMFORTABLE!

NATIONAL ADVERTISING in women's magazines will spread the good news about new "Stay-Soft" Kotex to women everywhere in Great Britain!

KOTEX
WITH LOOPS

Trade Price
PER DOZEN BOXES
20/3d.

Retail Price
PER BOX
2/3d.

Packing: 4 dozen boxes per case.

FOR EXTRA PROFITS, SURE PROFITS, DISPLAY KOTEX!

Order through your Wholesaler to-day!

DON'T FORGET!

You can include Kleenex and Delsey along with Kotex in the 5 case deal! This gives you a 5% discount.

RECKITT & COLMAN ANNOUNCE NULON HAND CREAM IN THE DAILY EXPRESS

WHEN YOU stock Nulon you are sure of sales for these reasons:

Women need it. Of 20,000,000 women in this country, 13,000,000 already use something for their hands. What a market!

It's a wonderful product. Nulon contains ingredients women believe in: glycerine, almond oil, lanoline. It's quickly absorbed, delightfully perfumed, non-sticky—and inexpensive!

Big profit earner. Generous margins, *plus* an extra launching bonus.

Success proved. (a) Out of 1,000 women sampled with Nulon, 556 sent full-price postal orders for more.

(b) Nulon sold well in "test towns" with numerous

repeat orders. It is now rapidly obtaining full national distribution.

Nulon gets full publicity support. Advertising for Nulon in the coming year is the biggest ever for any hand cream! In the National Press and Women's Magazines.

Attractively packed, ready for display. Nulon is attractively packed in 1-dozen display outlets. "Test towns" prove counter display sells Nulon fast.

Displays make sales. Ask our traveller for the eye-catching counter and window display pieces. They're free!

**Share in the success guaranteed by
advertisements like this huge
DAILY EXPRESS ½-page!**

Order NULON now and make sure of your bonus
Retail Prices 1/7 and DOUBLE SIZE 2/6

New wonder-working NULON HAND CREAM *with "skin-akin" oils!*

HERE it is at last! A hand cream that keeps *hard-working* hands soft and smooth. Nulon Hand Cream.

Even though your hands are in and out of water all day long. Even though you do all your own housework. Whichever soap or detergent you use. You can still have soft, smooth hands. Just use Nulon regularly.

*"Skin-akin" oils replace
natural oils*

Washing, work and harsh weather all take oils from your skin, and if these oils are not replaced your hands get dry, rough and red.

The "skin-akin" oils in Nulon are oils which can be absorbed deep down into your skin—that's why Nulon keeps hands soft and creamy.

And it costs so little!

Nulon is no fancy priced hand cream to keep for special occasions only. Use Nulon regularly every time you wash, from Good-morning to Good-night, and you'll be able to watch your hands getting smoother, softer, lovelier.

Your skin absorbs Nulon fast!

In just 20 seconds Nulon's "skin-akin" oils sink right into your skin. There's no sticky feeling with Nulon.

Only 1/7
DOUBLE SIZE 2/6



After this... Washing clothes and washing-up dry your skin, the glycerine in Nulon soothes and re-moistens it.



do this... Keep Nulon handy, use it often. Feel its rich lanoline and almond oils soaking in and softening.



for smooth-as-nylon hands! You'll be delighted, you'll be proud when you see the wonderful, well-cared-for look of your hands after the regular use of Nulon Hand Cream.



Keep them skipping fit Mother!

EDME
with **"Autumn Sun"**
EXTRACT OF MALT
WITH COD LIVER OIL (M)
The finest protection for chills and ills

Have you seen

THIS

**new beautifully designed
show card size 23" x 17½"
in 6 bright colours?**

Supplied with two side panels each 17" x 10½" the whole making an attractive window display, or can be used separately as counter show cards.

NOW IS THE TIME

to make a window display and ensure a steady flow of repeat orders for **"AUTUMN SUN,"**

the Malt and Oil with the taking flavour.

The complete set is FREE; ask our representative or write direct, sent post free.

EDME LIMITED

IMPERIAL HOUSE

84-86, REGENT STREET, LONDON, W.1.

Works: Mistley, Essex.

NIPASEPT

Combination of p-hydroxybenzoates

The harmless preservative and antiseptic for pharmaceutical and medical solutions.

Our Service Dept. will gladly co-operate with you on all technical problems.

NIPA LABORATORIES LTD.

TREFOREST TRADING ESTATE,
Nr. CARDIFF

Telephone: Treforest 2128/9

Sole Distributors for the United Kingdom

P. SAMUELSON & CO.

ROMAN WALL HOUSE,
1 CRUTCHED FRIARS, LONDON, E.C.3

Telephone: ROYAL 2117/8

MILLIONS are being urged to buy
Potter's
from their chemists*

Large-space NATIONAL & PROVINCIAL PRESS and MAGAZINE ADVERTISING backs POTTER'S PASTILLES

Right through the cough/cold 'season', Potter's Catarrh Pastilles and its companion-product Potter's Crystallised Pastilles will be supported by big advertising campaigns in media whose circulations **TOTAL OVER 52 MILLIONS!**

POTTER'S CATARRH PASTILLES displayed in the striking 1 dozen container. Retail price 1/8. Trade price 11/- a doz. (plus Purchase Tax, 2/9 a doz.)



*** So put POTTER'S on show!**



POTTER'S *Crystallised* CATARRH PASTILLES

are **READY NOW** in this attractive 1 doz. display box. Retail price 1/8. Trade price 11/- a doz. (plus Purchase Tax, 2/9 a doz.)

*** Orders through WHOLESALERS ONLY, please**

* N.B. Unless you specify "CRYSTALLISED PASTILLES", the usual Potter's Catarrh Pastilles will be supplied

POTTER & CLARKE LTD.
RIVER ROAD · BARKING · ESSEX

Stop it!
with this
fighting
*** formula**

stop **COUGHS**
beat **COLDS**
check **CATARRH**



You can feel them doing you GOOD!

It's surprising the power there is in every Potter's Catarrh Pastille! Each time you take one you benefit from a fighting formula that goes into action as soon as the pastille starts dissolving on your tongue...

*** If you prefer a 'sugary' taste try Potter's NEW Crystallised PASTILLES**

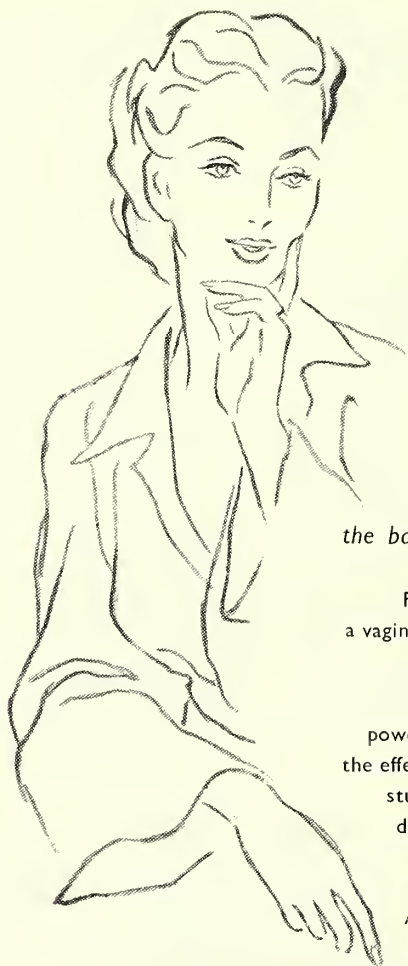
Same fighting formula same price... 1 8d. a tin
Children take them readily!



Potter's
CATARRH
PASTILLES

Product of POTTER & CLARKE LTD. Makers of POTTER'S ANTHIMY REMEDY

Actual size of this particular advertisement is 11" x 5 1/2"



Preceptin^{REGD}
VAGINAL GEL

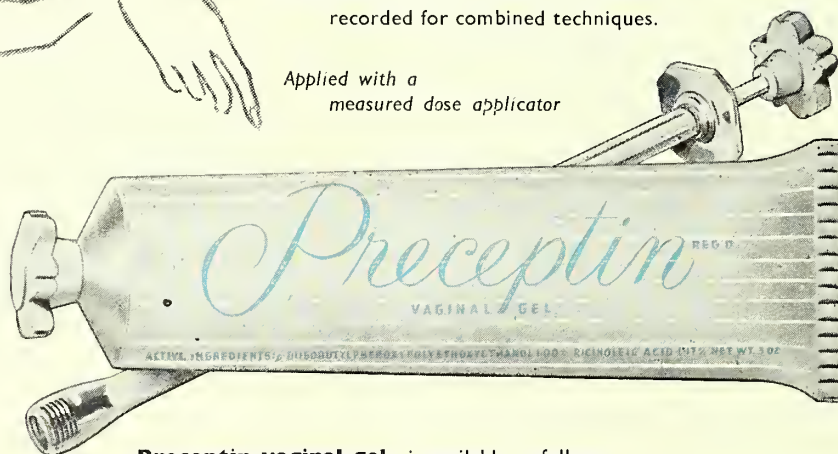
the **simple, dependable** method
of conception control
that **needs no diaphragm**

the barrier is built into the synthetic base

For the countless women who cannot or will not use
a vaginal diaphragm, Preceptin Vaginal Gel offers a degree of
effectiveness in conception control hitherto unequalled.

Its simplicity of application combined with its
powerful new spermicidal system continues to confirm
the effectiveness rate recorded in initial clinical
studies—demonstrating contraceptive
dependability greater than any previously
recorded for combined techniques.

*Applied with a
measured dose applicator*



Preceptin vaginal gel is available as follows:

Preceptin vaginal gel Package "A" (3 oz. tube and applicator) Retail price **9/6**

Preceptin vaginal gel Package "B" (3 oz. tube only) Retail price **7/-**

Supplies through your usual wholesaler please!

Ortho Pharmaceutical Limited

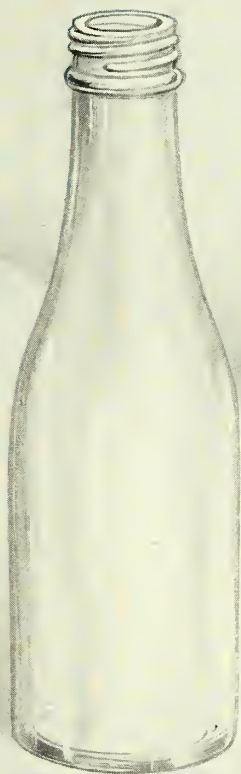
HIGH WYCOMBE · BUCKINGHAMSHIRE · ENGLAND

Makers of Gynaecic Pharmaceuticals



widely indicated . . . wisely prescribed

Quality
**IN WHITE FLINT
GLASS CONTAINERS**



DISPENSING BOTTLES

1-oz. to 20-oz.

RIBBED OVALS

$\frac{1}{2}$ -oz. to 16-oz.

VIALS

$\frac{1}{2}$ -oz. to 3-oz.

TABLET BOTTLES

Nos. 1 to 7 $\frac{1}{2}$ sizes.

ROUND SCREW JARS

Tall and Semi-squat.

PANELLED FLATS

1-oz. to 4-oz.

BOW-FRONT PANELS

1-oz. to 8-oz.

OLIVE OIL BOTTLES

2 $\frac{1}{2}$ -oz., 5-oz. & 10-oz.

WHOLESALE ONLY

- Prompt delivery from stock
- Packed in easily handled cartons

*Bow-Front Panels now also
available in 16oz. size.*

TRADE MARK



**NATIONAL GLASS
WORKS (YORK) LTD.**

FISHERGATE, YORK. Tel. YORK 3021.
ALSO AT: 105 HATTON GARDEN, LONDON, E.C.1.
TEL. HOLBORN 2146

There should be no QUERY..

Thirty years of scientific and engineering research and experience ensure a satisfactory answer to any sealing problem.

Why not let us help or advise you, whether by recommending the best closure for your product or designs for printed Metal Caps or Moulded Closures.



UGB

CLOSURE
DIVISION

UNITED GLASS BOTTLE MANUFACTURERS LTD

8 LEICESTER STREET, LONDON, W.C.2 - Telephone : GERRARD 6611 (18 LINES) Telegrams : UNGLABOMAN, LESQUARE, LONDON

*Freeflo***FEEDING
BOTTLES**

(SCREW CAP TYPE)

*Offer the following
advantages:—*

- 1 Breathes as it feeds.
- 2 Milk flows unimpeded.
- 3 Wide mouth for filling.
- 4 Teat securely held, non-slip.
- 5 Hermetical sealing, filled or empty.
- 6 Teat reverses and keeps sterile when not in use.
- 7 Feeds for 24 hours can be prepared, stored safely, used when required.

MADE IN BIRMINGHAM · ENGLAND

LEWIS WOOLF LTD.

144 OAKFIELD ROAD, SELLY OAK, BIRMINGHAM, 29

HALL FORSTER & CO. LTD.

offer a complete service in

DRUGS • ETHICALS • GALENICALS • ANTIBIOTICS
ADVERTISED PROPRIETARIES • SURGICAL DRESSINGS
PACKED COUNTER GOODS • TOILET ARTICLES

HALL FORSTER & CO., LTD. • NEWCASTLE upon TYNE

Established over half a century



...about KAY'S for coughs

He *will* be told! Illustrations and captions like the one above, backed by a compelling sales story, have been prepared for insertion in the National Press — to tell *millions* of men and women all about Kay's. You can profit from this publicity. Keep well stocked with Kay's Linseed Compound and Kay's Compound Pastilles—and have Kay's display material right in the front line on *your* counter!

KAY'S

LINSEED COMPOUND

also KAY'S Compound Pastilles

*For acidosis ...
recommend*

**Rayner's
Lembar**

*all the year
hot or cold*



**Lemons
Glucose
Scotch Barley
Sugar**

MADE BY RAYNER AND COMPANY LIMITED, LONDON, N.1

Only
Wisdom REGD.
has
Flextron*



* Flextron
combines the
liveliness of
natural bristle
with the long life
of nylon

THE WISDOM FLEXTRON BRUSH is presented in a rigid all-plastic V-pack with transparent case and a white platform. Three textures—medium, hard, extra hard. Sold for 2/3d., giving you a very generous margin. Full scale national advertising is now appearing. Order through your wholesaler.

Telephone:
NORTH 1076-2074

JOHN TYE & SON LTD.

Manufacturing Chemists

457 - 463 CALEDONIAN ROAD
LONDON · N·7 North 1076-2074

Telegrams:
'GELATINATE'

← AMPOULES
← CAPSULES
← TABLETS
← CRUSHABLE
CAPSULES
← PILLS

LAPORTE

Fine Chemicals



HYDROGEN PEROXIDE

Benzoyl Peroxide, Calcium Peroxide
Magnesium Peroxide, Zinc Peroxide

Urea Hydrogen Peroxide

Sodium Perborate

Sodium Percarbonate

Persulphates

Titanium Dioxide

Barium Sulphate B.P.

Sodium Lauryl Sulphate

Emulsifying Waxes

LAPORTE CHEMICALS LTD., LUTON
Phone: Luton 4390 Grams: "Laporte Luton"

ENSURE
PERFECT ALL TIME SALES

By Displaying

THE BABY

SOLNAP REGD
PY

GAUZE COVERED DISPOSABLE NAPKIN
made of absorbent cellulose with pink non-
absorbent backing and waterproof sheet

NEAR your SCALES



In Packets of 24's and 12's

INDISPENSABLE TO YOUR SERVICE TO MOTHERS
HOLIDAYING · TRAVELLING · VISITING · SHOPPING
NO MORE CARRYING OF SOILED NAPPIES

Tie up sales with the SOLNAP, Hygienic Panties, Cot Sheets,
Feeders, Bibs etc.

M. MERICA & CO., LIMITED

QUEENS MILL, 20 SHAW ROAD, OLDHAM, LANCs.

Telephone: MAIN 5803

Telegrams: Merica Oldham



Enterofagos

Polyvalent Intestinal Bacteriophage

*The purely biological treatment
for most intestinal, para-intestinal
kidney and bladder infections*

ENTEROFAGOS is one of the series of M.B.L. preparations which enjoy the confidence of the Medical profession in this country and overseas. It is of established therapeutic value in the treatment of infective conditions of the gastro-intestinal tract, kidneys and bladder.

ENTEROFAGOS contains the active bacteriophages against Staphylococci, Streptococci, B. coli, B. Typhosus, B. paratyphosus, B. dysenteriae and Enterococci. Whatever the dosage, it can be given to adults or children without fear of harmful reactions, and this combination of efficacy and safety makes ENTEROFAGOS the ideal treatment for the infective conditions indicated.

The preparation is contained in ampoules to be taken orally according to the instructions supplied.

Indications

Most cases of **Diarrhoea** respond rapidly to treatment with **ENTEROFAGOS**. **Colitis**, **Enteritis**, **Entero-colitis**, **Typhoid** and **Paratyphoid Fevers**, **Bacillary Dysentery**, **B. Coli Infections**, **Food Poisoning** are equally responsive to its treatment.



MEDICO-BIOLOGICAL LABORATORIES LTD.

CARGREEN ROAD, SOUTH NORWOOD, LONDON, S.E.25





VACCO Vacuum Vessels

All the models in our range are fitted with VACCO refills of extra high thermal efficiency. This ensures minimum temperature change—hot contents keep piping hot and cold contents keep icy cold.

MADE IN ENGLAND

Enquiries to :

VACCO LIMITED

Grosvenor Gardens House, Grosvenor Gardens, London, S.W.1.

WIDE MOUTHED
2 PINT
VACUUM
JAR
Model J.101

2 PINT
VACUUM
FLASK
Model Q.F.

1 PINT
VACUUM
FLASK
Model S.C.

1 PINT
PLASTIC
VACUUM
JUG
Model P.J.

NEW DESIGN CHRISTMAS WRAPPING PAPER

CARRIER BAGS

Samples & prices on application to :-

COLOROLL LTD.

72 TOTTENHAM COURT ROAD,
LONDON, W.1

MUSEum 0655

"Sweetheart"

"Drinkrite"

DRINKING STRAWS

special **SMALL PACKS** of 25, 50 and 100 straws.
Order now and **INSIST** on these brands for **QUALITY**.

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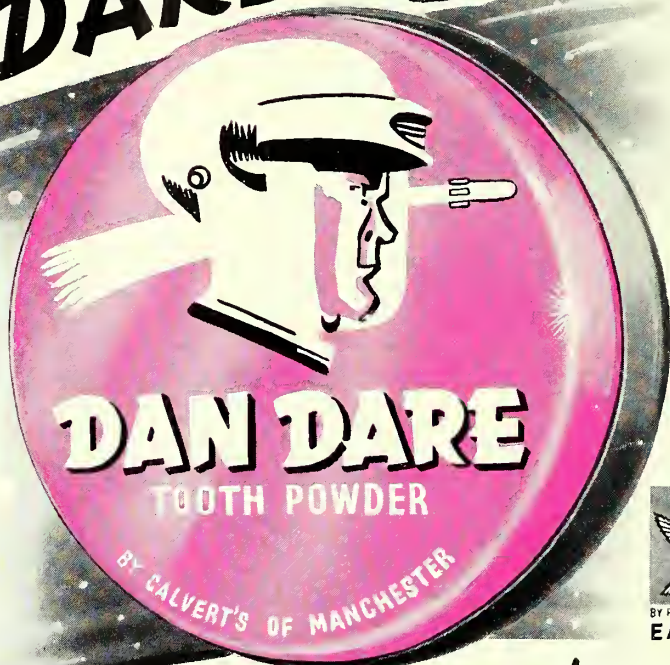
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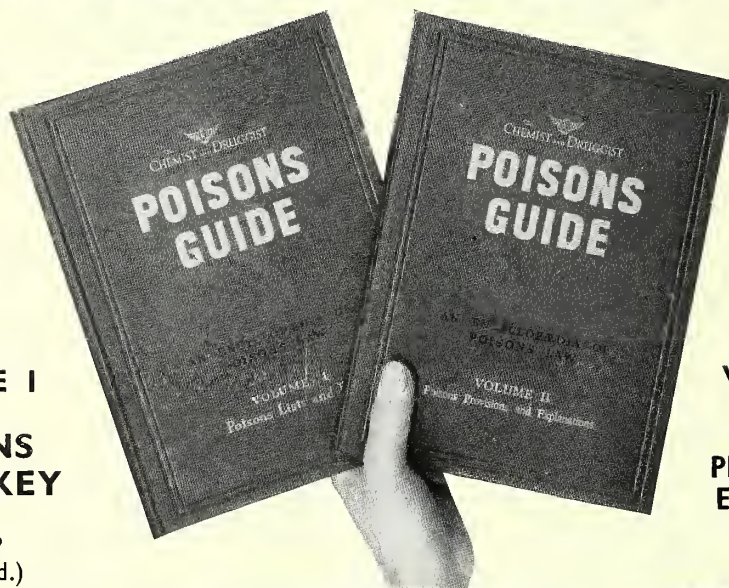
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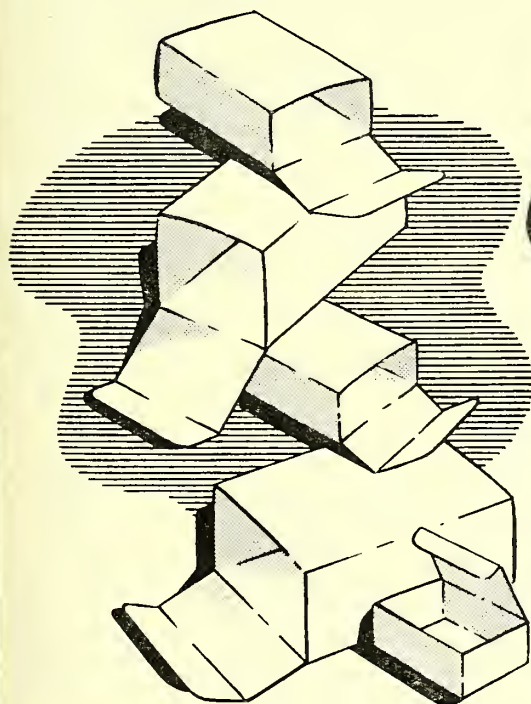


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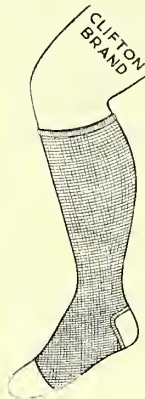
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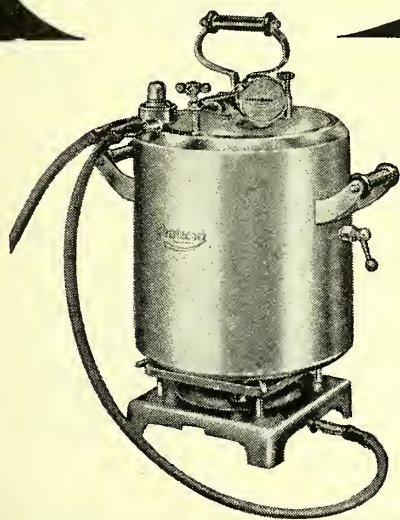
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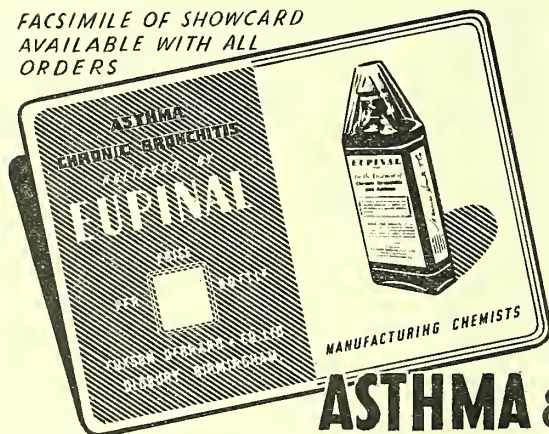
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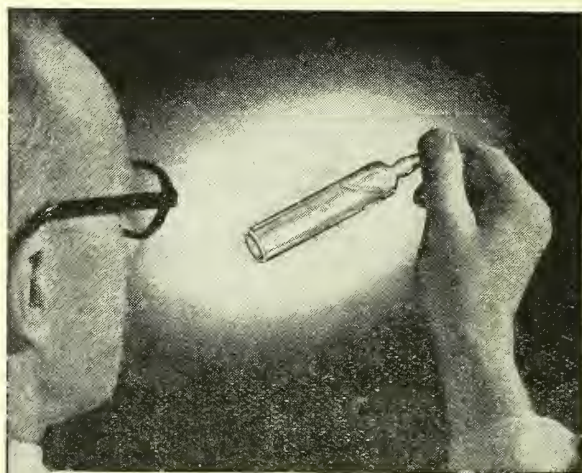
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A coronary vasodilator, active $1\frac{1}{2}$ hours after swallowing and effective for 4 to 5 hours. Each tablet is of 10 mg. strength.

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'Minel'
solves a costly and troublesome
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'Minel' does three things at once!

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The triple-action remedy for cattle and sheep



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Routine treatment means regular sales

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The
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OCTOBER 24 1953



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